

November 7, 2008

Mr. Herb Chaves, Esq.
116 John Street
New York, New York 10038

**Re: Subsurface Soil Interim Data Results
Conklin Brass Property
270 Nevins Street
Fulton Municipal Works Manufactured Gas Plant (MGP) Site
Brooklyn, New York 11217
Index No. A2-055-0606
Site No. 224051**

Dear Mr. Chaves:

On behalf of National Grid, GEI Consultants, Inc. (GEI) has prepared this letter to provide you with the testing results for subsurface soils collected beneath and adjacent to the warehouse at the Conklin Brass Property, 270 Nevins Street in Brooklyn, New York. The data was collected in July and August as part of remedial investigations that National Grid is completing under a New York State Department of Conservation (NYSDEC)/ New York State Department of Health (NYSDOH)-approved *Final Remedial Investigation Work Plan for the Fulton Municipal Works Former MGP Site* dated March 2008. The interim data result transmittal includes this summary letter, subsurface soil analytical testing results, a figure that summarizes the sample locations, and soil boring monitoring well logs. The air testing results for the warehouse were recently provided in a letter dated October 27, 2008.

The remainder of the letter provides a summary of the sampling activities, findings, and conclusions.

Summary of Sampling Activities

GEI and the drilling subcontractor conducted the subsurface soil investigations at and adjacent to the property from July 31 to August 27, 2008. The subsurface soil investigation included:

- Installation of seven subsurface borings (FW-SB-01 through FW-SB-05B) inside the warehouse.
- Installation of three soil borings (FW-SB-06 through FW-SB-08) within street rights-of-way and two borings FW-MW-01 and FW-MW-02 within the adjacent parking lot.
- Re-installation of two NYSDEC monitoring wells MW-1 and MW-3 with FW-MW-01R and FW-MW-3R.

- Collection of a surface soil sample (FW-SS-06) within the unpaved area between the warehouse and Gowanus Canal Bulkhead.

The sample locations are shown in Figure 1.

The soil borings were installed with a Geoprobe® drill rig to depths ranging from 25 feet to 100 feet. Soil boring logs and monitoring well logs that provide geologic information and observations of impacts are also attached. Three to four analytical samples were submitted from each boring. The soils were submitted to TestAmerica, a NYSDOH-approved laboratory in Shelton, Connecticut for chemical analysis including volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, pesticides, polychlorinated biphenyls (PCBs), herbicides and free cyanide in accordance with the NYSDEC/ NYSDOH-approved RI work plan. Once analyzed, the subsurface soil testing results were reviewed by a data validator to assure that analysis was completed according to regulatory guidelines.

Five monitoring wells were installed utilizing a hollow stem auger rig. Groundwater samples were not analyzed as part of recent remedial investigations. However, groundwater samples will be collected and analyzed following the installation of the remainder of the RI monitoring wells in the near future.

Summary of Findings

A brief summary of the findings from the RI activities is presented below. Figure 1 provides a summary of site conditions, historic structures and sample locations. The validated laboratory testing results (detections only) are provided in Table 1. The results were compared against 6NYCRR Subpart 375 Unrestricted Use Soil Cleanup Objectives (SCOs), with exceedances highlighted in gray. The soil analytical results were also compared to the Restricted Commercial Use SCOS because the Site is zoned for manufacturing. Exceedances of the Restricted Commercial Use SCOs are highlighted in yellow.

Based on our preliminary review of the data, we have concluded the following:

Surface Soils

Surface soils are concealed by the warehouse building, concrete sidewalks, and paved parking lot. Limited exposures of surface soils are present within:

- The unpaved area between the Gowanus Canal bulkhead and the warehouse.
- A planting adjacent to the warehouse along Degraw Street.
- Small openings in the sidewalk for trees along Degraw Street.

One soil sample (FW-SS-06) was collected from 0.5 feet to 1 foot between the

warehouse and the Gowanus Canal bulkhead. Laboratory testing indicates that concentrations of polycyclic aromatic hydrocarbons (PAHs), PCBs, pesticides, and metal were present at concentrations exceeding the Unrestricted Use SCoS. However, these concentrations were below the Commercial Use SCoS. Because of the limited areas of exposed surface soils and infrequent potential contact, these soils do not pose an immediate exposure concern at the property.

Subsurface Soils

Subsurface soils are isolated beneath the building, sidewalk and paved areas. Subsurface soils beneath the warehouse property and the surrounding areas represent fill imported for the construction of the Gowanus Canal bulkhead and filling of the former Gowanus Creek wetlands during the development of South Brooklyn. Fill materials were encountered in subsurface soils at depths of approximately 10 feet.

No visual impacts were observed in subsurface soils to 8 feet at the property. Within these soils, concentrations of VOCs (including benzene, toluene, ethylbenzene and xylene [BTEX]) and naphthalene were either not detected or present well below the Unrestictied Use and Restricted Commercial Use SCoS while concentrations of PAHs, pesticides and metals were present above the Unrestricted SCoS. Only concentrations of PAHs and three detections of arsenic and/or mercury are present above the Commercial SCoS.

Below 8 feet, subsurface soils exhibited staining, and petroleum and diesel-type odors to approximately 30 feet. MGP-tar related impacts were also encountered as shallow as 10 feet in FW-SB-05B and were primarily encountered between 20 feet and 46 feet. Isolated intervals of tar impacted soils were encountered from 60 to 65 feet and 92 to 98 feet within Degraw Street, Nevins Street and the parking lot. The soils exhibiting visual impacts had concentrations of BTEX, PAHs, metals and pesticides present above the Unrestricted SCoS for soils. However, PAHs and only one detection of benzene were present at concentrations above the Restricted Commercial Use SCoS. Because these soils are isolated beneath the building or paved surfaces, they do not pose an immediate exposure concern for workers at the property. However, a potential exposure pathway would exist if intrusive construction activities disturb the soils beneath the pavement or building foundation.

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Conclusions/Recommendations

The subsurface investigations show that the observed impacts are located below 8 feet, are beneath the warehouse or other paved areas, and do not pose an immediate exposure concern to workers at the property.

As indicated in the October 27, 2008 letter, GEI recommends that a second round of soil vapor, indoor air, and outdoor air samples be collected to evaluate potential soil vapor intrusion during the upcoming heating season (November 15 to March 31) in accordance with NYSDOH guidance and as indicated in the NYSDEC/NYSDOH-approved Work Plan.

Please contact Tracey Bell at National Grid if you have questions regarding this interim data transmittal. She can be contacted at 718-963-5645 or via e-mail at tracey.bell@us.ngrid.com.

Best regards,



Lynn Willey
Project Geologist

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Table 1
Subsurface Soil Interim Data Results Summary
Conklin Brass Property
Fulton Municipal Works Former Manufactured Gas Plant
Brooklyn, New York

Sample Name Depth Interval Sample Date	6 NYCRR 375 UNRESTRICTED USE SCO	6 NYCRR 375 RESTRICTED USE COMMERCIAL SCO	FW-MW-01 (3-4) 8/1/2008	Duplicate of: FW-MW-01 (3-4) 8/1/2008	FW-MW-01 (15-17) 8/14/2008	FW-MW-01 (65-66) 8/15/2008	FW-MW-02 (3-4) 8/1/2008	FW-MW-02 (24-25) 8/20/2008	FW-MW-02 (73-75) 8/22/2008	Duplicate of: FW-MW-02 (73-75) 8/22/2008
BTEX (mg/kg)										
Benzene	0.06	44	0.03 UJ	0.031 U	0.026 J	0.63 U	0.0057 UJ	1.1 U	0.0054 U	0.0055 U
Toluene	0.7	500	0.03 UJ	0.031 U	0.029 U	0.63 U	0.0057 UJ	1.1 U	0.0054 U	0.0055 U
Ethylbenzene	1	390	0.03 UJ	0.031 U	0.1	0.63 U	0.0057 UJ	3.5	0.0054 U	0.0055 U
Xylene, total	0.26	500	0.03 UJ	0.031 U	0.04	0.63 U	0.0057 UJ	0.66 J	0.0054 U	0.0055 U
Total BTEX	NE	NE	ND	ND	0.166	ND	ND	4.16	ND	ND
Other VOCs (mg/kg)										
Acetone	0.05	500	0.12 UJ	0.12 U	0.11 U	1.6 U	0.023 U	2.8 U	0.022 U	0.022 U
Carbon disulfide	NE	NE	0.03 UJ	0.031 U	0.029 U	0.24 J	0.0057 UJ	1.1 U	0.0054 U	0.0055 U
Dichloroethene, cis-1,2-	0.25	500	0.027 J	0.022 J	0.029 U	0.63 U	0.0057 UJ	1.1 U	0.0054 U	0.0055 U
Methylene chloride	0.05	500	0.12 U	0.12 U	0.11 U	0.63 U	0.023 U	1.1 U	0.022 U	0.022 U
Tetrachloroethene	1.3	150	0.005 J	0.0049 J	0.029 U	0.63 U	0.0057 UJ	1.1 U	0.0054 U	0.0055 U
Trichloroethene	0.47	200	0.45 J	0.41	0.029 U	0.63 U	0.018 J	1.1 U	0.0054 U	0.0055 U
Total VOCs	NE	NE	0.482	0.4369	0.166	0.24	0.018	4.16	ND	ND
Non-carcinogenic PAHs (mg/kg)										
Acenaphthene	20	500	0.42 J	0.44 J	5	9.8	0.37 U	45	0.35 U	0.35 U
Acenaphthylene	100	500	2.7	2.6	0.41	2.8	0.26 J	8.4	0.35 U	0.35 U
Anthracene	100	500	1.7	1.7	1.3	8	0.25 J	17	0.35 U	0.35 U
Benzol[g,h,i]perylene	100	500	7.6	7.2	0.49	1.6 J	0.54	6.1	0.35 U	0.35 U
Fluoranthene	100	500	7.1	7	2.1	9.6	1.6	22	0.35 U	0.35 U
Fluorene	30	500	0.49 J	0.49 J	1	1.5 J	0.37 U	19	0.35 U	0.35 U
Methylnaphthalene,2-	NE	NE	0.27 J	0.27 J	0.38 U	2.1 U	0.37 U	10	0.35 U	0.35 U
Naphthalene	12	500	0.64	0.7	0.38 U	0.49 J	0.37 U	21	0.35 U	0.35 U
Phenanthrene	100	500	4.5	4.5	4.8	25	0.74	57	0.1 J	0.12 J
Pyrene	100	500	8.8	7.9	4.5	16	1.2	35	0.35 U	0.095 J
Total Non-carcinogenic PAHs	NE	NE	34.22	32.8	19.6	74.79	4.59	240.5	0.1	0.215
Carcinogenic PAHs (mg/kg)										
Benz[a]anthracene	1	5.6	5.2	5	0.91	6.3	0.97	11	0.35 U	0.35 U
Benz[a]pyrene	1	1	5.2	4.7	0.77	4.6	1	8.9	0.35 U	0.35 U
Benz[b]fluoranthene	1	5.6	6.2	5.7	0.48	3.1	1.4	5.2	0.35 U	0.35 U
Benz[k]fluoranthene	0.8	56	2.1	1.9	0.21 J	1.3 J	0.45	1.7 J	0.35 U	0.35 U
Chrysene	1	56	4.9	4.8	0.88	5.8	1.1	10	0.35 U	0.35 U
Dibenz[a,h]anthracene	0.33	0.56	1	1	0.38 U	0.33 J	0.14 J	0.94 J	0.35 U	0.35 U
Indeno[1,2,3-cd]pyrene	0.5	5.6	5.6	5.4	0.3 J	1.4 J	0.58	4.6	0.35 U	0.35 U
Total Carcinogenic PAHs	NE	NE	30.2	28.5	3.55	22.83	5.64	42.34	ND	ND
Total PAHs (mg/kg)										
Total PAHs	NE	NE	64.42	61.3	23.15	97.62	10.23	282.84	0.1	0.215

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Fulton Municipal Works Former Manufactured Gas Plant
Brooklyn, New York

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Other SVOCs (mg/kg)										
Bis(2-ethylhexyl)phthalate	NE	NE	0.78 U	0.81 U	0.38 U	2.1 U	0.37 U	3.6 U	0.35 U	0.35 U
Carbazole	NE	NE	0.34 J	0.37 J	0.38 U	2.1 U	0.37 U	3.6 U	0.35 U	0.35 U
Dibenzofuran	7	350	0.27 J	0.27 J	0.38 U	0.45 J	0.37 U	3.6 U	0.35 U	0.35 U
Di-n-butyl phthalate	NE	NE	0.2 J	0.33 J	0.38 U	2.1 U	0.37 U	3.6 U	0.35 U	0.35 U
Total SVOCs	NE	NE	65.23	62.27	23.15	98.07	10.23	282.84	0.1	0.215
PCBs (mg/kg)										
Aroclor 1254	NE	NE	0.02 U	0.021 U	NA	NA	0.01 J	NA	NA	NA
Aroclor 1260	NE	NE	0.02 U	0.021 U	NA	NA	0.019 U	NA	NA	NA
Total PCBs	0.1	1	ND	ND	ND	ND	0.01	ND	ND	ND
Pesticides (mg/kg)										
Alpha-bhc	0.02	3.4	0.002 U	0.0021 U	NA	NA	0.0019 U	NA	NA	NA
Alpha-chlordane	0.094	24	0.002 UJ	0.0021 UJ	NA	NA	0.0019 UJ	NA	NA	NA
Beta-BHC	0.036	3	0.002 U	0.0021 U	NA	NA	0.0019 U	NA	NA	NA
Chlordane, trans-	NE	NE	0.002 U	0.0021 U	NA	NA	0.0019 U	NA	NA	NA
DDD,4,4-	0.0033	92	0.012 J	0.0097 J	NA	NA	0.0038 UJ	NA	NA	NA
DDE,4,4-	0.0033	62	0.0039 U	0.004 U	NA	NA	0.0038 U	NA	NA	NA
DDT,4,4-	0.0033	47	0.0039 UJ	0.0047 UJ	NA	NA	0.0038 UJ	NA	NA	NA
Delta-BHC	0.04	500	0.002 U	0.0008 J	NA	NA	0.0019 U	NA	NA	NA
Dieldrin	0.005	1.4	0.0039 U	0.004 U	NA	NA	0.0038 U	NA	NA	NA
Endosulfan I	2.4	200	0.0031 J	0.0021 U	NA	NA	0.0019 U	NA	NA	NA
Endosulfan II	2.4	200	0.0039 U	0.004 U	NA	NA	0.0038 U	NA	NA	NA
Endosulfan sulfate	2.4	200	0.0082 J	0.0082 J	NA	NA	0.0038 U	NA	NA	NA
Endrin	0.014	89	0.0064 J	0.0061 J	NA	NA	0.0038 U	NA	NA	NA
Endrin aldehyde	NE	NE	0.017 J	0.019 J	NA	NA	0.0038 UJ	NA	NA	NA
Gamma-BHC	0.1	9.2	0.002 U	0.0021 U	NA	NA	0.0019 U	NA	NA	NA
Heptachlor	0.042	15	0.002 U	0.0021 U	NA	NA	0.0019 U	NA	NA	NA
Heptachlor epoxide	NE	NE	0.002 U	0.0041 J	NA	NA	0.0019 U	NA	NA	NA
Methoxychlor	NE	NE	0.02 U	0.021 U	NA	NA	0.019 U	NA	NA	NA
Total Pesticides	NE	NE	0.0467	0.0479	ND	ND	ND	ND	ND	ND
Herbicides (mg/kg)										
T,2,4,5-	NE	NE	0.026 U	0.024 U	NA	NA	0.029 U	NA	NA	NA
Total Herbicides	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND

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Total Metals (mg/kg)										
Aluminum	NE	NE	2970	2190	3150	3500	2730	3410	3930	3740
Antimony	NE	NE	4.8 J	15.4 UJ	14.3 UJ	15.7 UJ	14.3 UJ	13.9 UJ	13.5 UJ	13.8 UJ
Arsenic	13	16	80.8	55.9	7.1 U	1.9 J	7.6	6.9 U	6.7 U	1.2 J
Barium	350	400	120	94.6	11.6 J	39.8 J	77	24.7 J	38.5 J	39.7 J
Beryllium	7.2	590	0.61 J	0.56 J	2 U	0.36 J	0.5 J	1.9 U	1.9 U	1.9 U
Cadmium	2.5	9.3	2.1 J	1.1 J	7.1 U	7.8 U	7.2 U	6.9 U	6.7 U	6.9 U
Calcium	NE	NE	5730 J	9970 J	798 J	10800	6320	1650	6880	6300
Chromium	NE	NE	22.8 J	8.6 J	7.5	25	7.1	10	14.6	12
Cobalt	NE	NE	7.7 J	5.1 J	11.3 J	5.3 J	5.7 J	3.8 J	6.6 J	5.3 J
Copper	50	270	84.4 J	57 J	7.1 J	30	54.1 J	10.7	13.4	11
Iron	NE	NE	46800	41900	6740	11900	13400	8670	10500	9590
Lead	63	1000	266 J	159 J	2.9 J	16.2	613 J	6.4	5.8	5.1
Magnesium	NE	NE	3050 J	1040 J	1720	5130	783 J	3200	10300	6690
Manganese	1600	10,000	142	131	73.1	334	462	120	253	227
Mercury	0.18	2.8	3 J	0.79 J	0.051 U	0.06 U	0.39	0.018 J	0.05 U	0.053 U
Nickel	30	310	31	16.5	25.9 J	29.3 J	15	18.5 J	73.7 J	44.7 J
Potassium	NE	NE	1670	1200 J	579 J	896 J	507 J	915 J	1190 J	1100 J
Selenium	3.9	1500	6.8 J	6 J	14.3 U	15.7 U	3.1 J	13.9 U	13.5 U	13.8 U
Sodium	NE	NE	2950	2130	285 U	438 UJ	286 U	277 U	423 UJ	446 UJ
Vanadium	NE	NE	22.3	13.4 J	11 J	15 J	9.9 J	14.9	16.5	16.2
Zinc	109	10,000	327	220	59.6	104	214	19.6	26.2	25.6
Cyanides (mg/kg)										
Cyanide, Free	NE	NE	0.072 U	0.074 U	0.069 U	0.075 U	0.0069 J	0.067 U	0.065 U	0.066 U

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BTEX (mg/kg)									
Benzene	0.06	44	0.0053 U	5.9	0.0024 J	0.0087 J	0.01 J	4	0.04 J
Toluene	0.7	500	0.0032 J	2.4 U	0.001 J	0.0043 J	0.0032 J	0.15 J	0.00096 J
Ethylbenzene	1	390	0.0053 U	84	0.0055 U	0.001 J	0.0011 J	8.9	0.006
Xylene, total	0.26	500	0.0053 U	36	0.0055 U	0.0036 J	0.004 J	2.6	0.0058 U
Total BTEX	NE	NE	0.0032	125.9	0.0034	0.0176	0.0183	15.65	0.04696
Other VOCs (mg/kg)									
Acetone	0.05	500	0.043 UJ	5.9 U	0.036 UJ	0.071 J	0.079 J	1.5 U	0.023 U
Carbon disulfide	NE	NE	0.0053 U	2.4 U	0.0098 J	0.0055 UJ	0.0056 UJ	0.59 U	0.0058 U
Dichloroethene, cis-1,2-	0.25	500	0.0053 U	2.4 U	0.0055 U	0.0055 UJ	0.0056 UJ	0.59 U	0.0058 U
Methylene chloride	0.05	500	0.021 U	2.4 U	0.022 U	0.0084 J	0.0034 J	0.59 U	0.023 U
Tetrachloroethene	1.3	150	0.0053 U	2.4 U	0.0055 U	0.0055 UJ	0.0056 UJ	0.59 U	0.0058 U
Trichloroethene	0.47	200	0.005 J	2.4 U	0.0014 J	0.0029 J	0.0056 UJ	0.59 U	0.0013 J
Total VOCs	NE	NE	0.0082	125.9	0.00578	0.0999	0.1007	15.65	0.04826
Non-carcinogenic PAHs (mg/kg)									
Acenaphthene	20	500	0.34 U	82 J	0.36 U	7.1	3.7 U	73	0.095 J
Acenaphthylene	100	500	0.21 J	38 J	0.36 U	9.5	2.4 J	15 J	0.38 U
Anthracene	100	500	0.14 J	53 J	0.36 U	21 J	6.7 J	31	0.38 U
Benzof[g,h,i]perylene	100	500	0.28	R	0.36 U	20	15	8.4 J	0.38 U
Fluoranthene	100	500	0.16 J	54 J	0.36 U	80 J	37 J	41	0.11 J
Fluorene	30	500	0.34 U	58 J	0.36 U	16 J	1 J	44	0.075 J
Methylnaphthalene,2-	NE	NE	0.34 U	330 J	0.36 U	5.4 J	3.7 U	130	0.094 J
Naphthalene	12	500	0.34 U	480 J	0.12 J	5.2 J	0.87 J	4.3 J	0.38 U
Phenanthrene	100	500	0.15 J	190 J	0.18 J	89 J	8.1 J	140	0.33
Pyrene	100	500	0.22 J	57 J	0.36 U	60 J	36 J	74	0.2 J
Total Non-carcinogenic PAHs	NE	NE	1.16	1342	0.3	313.2	107.07	560.7	0.904
Carcinogenic PAHs (mg/kg)									
Benz[a]anthracene	1	5.6	0.14 J	32 J	0.36 U	34	21	23	0.38 U
Benz[a]pyrene	1	1	0.16 J	22 J	0.36 U	27 J	16 J	18	0.38 U
Benz[b]fluoranthene	1	5.6	0.16 J	16 J	0.36 U	30	20	11 J	0.38 U
Benz[k]fluoranthene	0.8	56	0.15 J	R	0.36 U	11	7.6	3.6 J	0.38 U
Chrysene	1	56	0.34 U	34 J	0.36 U	32	20	23	0.38 U
Dibenz[a,h]anthracene	0.33	0.56	0.34 U	R	0.36 U	5.2 J	3.6	19 U	0.38 U
Indeno[1,2,3-cd]pyrene	0.5	5.6	0.19 J	R	0.36 U	22	15	6.1 J	0.38 U
Total Carcinogenic PAHs	NE	NE	0.8	104	ND	161.2	103.2	84.7	ND
Total PAHs (mg/kg)									
Total PAHs	NE	NE	1.96	1446	0.3	474.4	210.27	645.4	0.904

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Fulton Municipal Works Former Manufactured Gas Plant
Brooklyn, New York

Sample Name Depth Interval Sample Date	6 NYCRR 375 UNRESTRICTED USE SCO	6 NYCRR 375 RESTRICTED USE COMMERCIAL SCO	FW-SB-01 (1-3) 8/5/2008	FW-SB-01 (33-35) 8/5/2008	FW-SB-01 (48-50) 8/5/2008	FW-SB-02 (2-4) 8/12/2008	Duplicate of: FW-SB-02 (2-4) 8/12/2008	FW-SB-02 (30-33) 8/12/2008	FW-SB-02 (45-50) 8/12/2008
<i>Other SVOCs (mg/kg)</i>									
Bis(2-ethylhexyl)phthalate	NE	NE	0.21 J	R	0.22 J	7.1 U	3.7 U	19 U	0.38 U
Carbazole	NE	NE	0.34 U	R	0.36 U	9.2	3.7 U	19 U	0.38 U
Dibenzofuran	7	350	0.34 U	R	0.36 U	7.7	3.7 U	19 U	0.38 U
Di-n-butyl phthalate	NE	NE	0.34 U	R	0.36 U	7.1 U	3.7 U	19 U	0.38 U
Total SVOCs	NE	NE	2.17	1446	0.52	491.3	210.27	645.4	0.904
<i>PCBs (mg/kg)</i>									
Aroclor 1254	NE	NE	0.042	NA	NA	0.044	0.056	NA	NA
Aroclor 1260	NE	NE	0.012 J	NA	NA	0.014 J	0.018 J	NA	NA
Total PCBs	0.1	1	0.054	ND	ND	0.058	0.074	ND	ND
<i>Pesticides (mg/kg)</i>									
Alpha-bhc	0.02	3.4	0.0018 U	NA	NA	0.0092 U	0.0019 U	NA	NA
Alpha-chlordane	0.094	24	0.0018 UJ	NA	NA	0.042 J	0.0093 J	NA	NA
Beta-BHC	0.036	3	0.0018 U	NA	NA	0.0092 U	0.0019 U	NA	NA
Chlordane, trans-	NE	NE	0.0018 U	NA	NA	0.039 J	0.0077 JN	NA	NA
DDD,4,4-	0.0033	92	0.0035 U	NA	NA	0.018 U	0.0011 J	NA	NA
DDE,4,4-	0.0033	62	0.0035 U	NA	NA	0.004 J	0.002 J	NA	NA
DDT,4,4-	0.0033	47	0.0035 UJ	NA	NA	0.018 U	0.0078 U	NA	NA
Delta-BHC	0.04	500	0.0018 U	NA	NA	0.0092 U	0.0019 U	NA	NA
Dieldrin	0.005	1.4	0.0035 U	NA	NA	0.011 J	0.0029 J	NA	NA
Endosulfan I	2.4	200	0.0018 U	NA	NA	0.0092 U	0.0019 U	NA	NA
Endosulfan II	2.4	200	0.0035 U	NA	NA	0.018 U	0.0037 U	NA	NA
Endosulfan sulfate	2.4	200	0.0035 U	NA	NA	0.018 U	0.0037 U	NA	NA
Endrin	0.014	89	0.0035 U	NA	NA	0.018 U	0.0037 U	NA	NA
Endrin aldehyde	NE	NE	0.0035 U	NA	NA	0.018 U	0.0037 U	NA	NA
Gamma-BHC	0.1	9.2	0.0018 U	NA	NA	0.0092 U	0.0019 U	NA	NA
Heptachlor	0.042	15	0.0018 U	NA	NA	0.0092 U	0.0019 U	NA	NA
Heptachlor epoxide	NE	NE	0.0018 U	NA	NA	0.0079 J	0.0016 J	NA	NA
Methoxychlor	NE	NE	0.018 UJ	NA	NA	0.092 U	0.019 U	NA	NA
Total Pesticides	NE	NE	ND	ND	ND	0.1039	0.0246	ND	ND
<i>Herbicides (mg/kg)</i>									
T,2,4,5-	NE	NE	0.023 U	NA	NA	0.023 U	0.024 U	NA	NA
Total Herbicides	NE	NE	ND	ND	ND	ND	ND	ND	ND

Table 1
Subsurface Soil Interim Data Results Summary
Conklin Brass Property
Fulton Municipal Works Former Manufactured Gas Plant
Brooklyn, New York

Sample Name Depth Interval Sample Date	6 NYCRR 375 UNRESTRICTED USE SCO	6 NYCRR 375 RESTRICTED USE COMMERCIAL SCO	FW-SB-01 (1-3) 8/5/2008	FW-SB-01 (33-35) 8/5/2008	FW-SB-01 (48-50) 8/5/2008	FW-SB-02 (2-4) 8/12/2008	Duplicate of: FW-SB-02 (2-4) 8/12/2008	FW-SB-02 (30-33) 8/12/2008	FW-SB-02 (45-50) 8/12/2008
Total Metals (mg/kg)									
Aluminum	NE	NE	4530	2980	3630	3960	3360	2610	2920
Antimony	NE	NE	13.2 UJ	14.9 UJ	13.7 UJ	13.7 UJ	14 UJ	14.9 UJ	14.5 UJ
Arsenic	13	16	3 J	1.3 J	6.8 U	4.8	3 J	1.4 J	7.3 U
Barium	350	400	65.2	18.9 J	42.4 J	91.3	68.9	23.5 J	30.3 J
Beryllium	7.2	590	1.9 U	2.1 U	1.9 U	1.9 U	0.44 J	2.1 U	2 U
Cadmium	2.5	9.3	6.6 U	7.4 U	6.8 U	2.3	7 U	7.4 U	7.3 U
Calcium	NE	NE	62800	1110 J	13400	34200	25800	830 J	6690
Chromium	NE	NE	11.1	7.7	11.4	15	11.8	6.6	8.7
Cobalt	NE	NE	3.5 J	3.8 J	5 J	5.2 J	3.8 J	5.6 J	3.6 J
Copper	50	270	20	8.3	15.4	75.7 J	44.6 J	7.5	13.5
Iron	NE	NE	8790	7660	10100	14000	16000	6960	7620
Lead	63	1000	57.7	3	6.4	189 J	147 J	2.6 J	7.3 J
Magnesium	NE	NE	11400	2500	6080	6150 J	3200 J	3180	3810
Manganese	1600	10,000	151	199	385	207	164	74.5	201
Mercury	0.18	2.8	0.033	0.059 U	0.051 U	1.2	1.9	0.054 U	0.056 U
Nickel	30	310	8.2 J	17.5 J	35.9 J	15.7 J	13.2 J	19.4 J	15.4 J
Potassium	NE	NE	1470 J	582 J	907 J	911 J	851 J	469 J	748 J
Selenium	3.9	1500	13.2 U	14.9 U	13.7 U	13.7 U	14 U	14.9 U	14.5 U
Sodium	NE	NE	1300 J	297 U	273 U	2030 J	1900 J	297 U	290 U
Vanadium	NE	NE	12.4 J	12.8 J	21.4	13.8	11.3 J	7.5 J	10.8 J
Zinc	109	10,000	66.4	15.1	26.6	189	127	13.7 J	16.3 J
Cyanides (mg/kg)									
Cyanide, Free	NE	NE	0.064 U	0.071 U	0.066 U	0.066 U	0.067 U	0.071 U	0.07 U

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Table 1
Subsurface Soil Interim Data Results Summary
Conklin Brass Property
Fulton Municipal Works Former Manufactured Gas Plant
Brooklyn, New York

Sample Name Depth Interval Sample Date	6 NYCRR 375 UNRESTRICTED USE SCO	6 NYCRR 375 RESTRICTED USE COMMERCIAL SCO	FW-SB-03 (2-5) 8/13/2008	FW-SB-03 (8-10) 8/13/2008	FW-SB-03 (15-17.5) 8/14/2008	FW-SB-03 (23.5-25) 8/13/2008	FW-SB-04 (0.5-3) 8/6/2008	FW-SB-04 (42-43) 8/6/2008	FW-SB-04 (48-50) 8/6/2008
BTEX (mg/kg)									
Benzene	0.06	44	0.021	1.2 U	0.14 J	0.68	0.002 J	68	0.0077
Toluene	0.7	500	0.011	0.36 J	0.56 U	0.61 U	0.0059 U	12 U	0.0058 U
Ethylbenzene	1	390	0.0017 J	38	15	1.3	0.0059 U	370	0.0013 J
Xylene, total	0.26	500	0.0045 J	29	5.8	0.32 J	0.0059 U	82	0.0058 U
Total BTEX	NE	NE	0.0382	67.36	20.94	2.3	0.002	520	0.009
Other VOCs (mg/kg)									
Acetone	0.05	500	0.076	3.1 U	1.4 U	1.5 U	0.044 UJ	29 U	0.023 UJ
Carbon disulfide	NE	NE	0.0054 U	1.2 U	0.56 U	0.61 U	0.0059 U	12 U	0.0058 U
Dichloroethene, cis-1,2-	0.25	500	0.0054 U	1.2 U	0.56 U	0.61 U	0.0059 U	12 U	0.0058 U
Methylene chloride	0.05	500	0.022 U	1.2 U	0.56 U	0.61 U	0.024 U	12 U	0.023 U
Tetrachloroethene	1.3	150	0.0054 U	1.2 U	0.56 U	0.61 U	0.0059 U	12 U	0.0058 U
Trichloroethene	0.47	200	0.0054 U	1.2 U	0.56 U	0.61 U	0.0059 U	12 U	0.0058 U
Total VOCs	NE	NE	0.1142	67.36	20.94	2.3	0.002	520	0.009
Non-carcinogenic PAHs (mg/kg)									
Acenaphthene	20	500	0.65 J	330	110	16	0.38 U	54	0.38 U
Acenaphthylene	100	500	19	99 J	31	4.4	0.55	19	0.38 U
Anthracene	100	500	14	170	48	7.9	0.43	31	0.38 U
Benzof[g,h,i]perylene	100	500	34	54 J	11 J	2.1	0.81	5.9 J	0.38 U
Fluoranthene	100	500	22	270	58	9	0.97	34	0.38 U
Fluorene	30	500	3	210	56	9.1	0.38 U	35	0.38 U
Methylnaphthalene,2-	NE	NE	1.6 J	720	190	31	0.38 U	100	0.38 U
Naphthalene	12	500	2.6 J	1600	320	1.2 J	0.38 U	270	0.38 U
Phenanthrene	100	500	13	650	170	28	0.69	110	0.38 U
Pyrene	100	500	44	340	78	14	1.7	45	0.38 U
Total Non-carcinogenic PAHs	NE	NE	153.85	4443	1072	122.7	5.15	703.9	ND
Carcinogenic PAHs (mg/kg)									
Benz[a]anthracene	1	5.6	27	150 J	29 J	5.4	0.74	19	0.38 U
Benz[a]pyrene	1	1	30	130 J	24 J	3.9	0.75	13 J	0.38 U
Benz[b]fluoranthene	1	5.6	25	88 J	16 J	2.4	0.86	8.6 J	0.38 U
Benz[k]fluoranthene	0.8	56	7.8	32 J	5.3 J	0.86 J	0.34	19 U	0.38 U
Chrysene	1	56	27	150 J	28 J	5	0.78	18	0.38 U
Dibenz[a,h]anthracene	0.33	0.56	6.7	200 U	37 U	0.39 J	0.15 J	19 U	0.38 U
Indeno[1,2,3-cd]pyrene	0.5	5.6	26	48 J	9 J	1.7	0.8	5.6 J	0.38 U
Total Carcinogenic PAHs	NE	NE	149.5	598	111.3	19.65	4.42	64.2	ND
Total PAHs (mg/kg)									
Total PAHs	NE	NE	303.35	5041	1183.3	142.35	9.57	768.1	ND

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Table 1
Subsurface Soil Interim Data Results Summary
Conklin Brass Property
Fulton Municipal Works Former Manufactured Gas Plant
Brooklyn, New York

Sample Name Depth Interval Sample Date	6 NYCRR 375 UNRESTRICTED USE SCO	6 NYCRR 375 RESTRICTED USE COMMERCIAL SCO	FW-SB-03 (2-5) 8/13/2008	FW-SB-03 (8-10) 8/13/2008	FW-SB-03 (15-17.5) 8/14/2008	FW-SB-03 (23.5-25) 8/13/2008	FW-SB-04 (0.5-3) 8/6/2008	FW-SB-04 (42-43) 8/6/2008	FW-SB-04 (48-50) 8/6/2008
<i>Other SVOCs (mg/kg)</i>									
Bis(2-ethylhexyl)phthalate	NE	NE	3.6 U	200 U	37 U	2 U	0.38 U	19 U	0.38 U
Carbazole	NE	NE	3.6 U	200 U	37 U	2 U	0.38 U	19 U	0.38 U
Dibenzofuran	7	350	3.6 U	200 U	37 U	2 U	0.38 U	3.4 J	0.38 U
Di-n-butyl phthalate	NE	NE	3.6 U	200 U	37 U	2 U	0.38 U	19 U	0.38 U
Total SVOCs	NE	NE	303.35	5041	1183.3	142.35	9.57	771.5	ND
<i>PCBs (mg/kg)</i>									
Aroclor 1254	NE	NE	0.018 U	0.021 U	NA	NA	0.0074 J	NA	NA
Aroclor 1260	NE	NE	0.018 U	0.021 U	NA	NA	0.0083 J	NA	NA
Total PCBs	0.1	1	ND	ND	ND	ND	0.0157	ND	ND
<i>Pesticides (mg/kg)</i>									
Alpha-bhc	0.02	3.4	0.0018 U	0.0021 U	NA	NA	0.002 U	NA	NA
Alpha-chlordane	0.094	24	0.0018 U	0.037 J	NA	NA	0.002 UJ	NA	NA
Beta-BHC	0.036	3	0.0018 U	0.0027 J	NA	NA	0.002 U	NA	NA
Chlordane, trans-	NE	NE	0.0018 U	0.028 JN	NA	NA	0.002 U	NA	NA
DDD,4,4-	0.0033	92	0.0035 UJ	0.0041 UJ	NA	NA	0.0039 U	NA	NA
DDE,4,4-	0.0033	62	0.0035 U	0.0061 JN	NA	NA	0.0039 U	NA	NA
DDT,4,4-	0.0033	47	0.024 J	0.018 JN	NA	NA	0.0039 UJ	NA	NA
Delta-BHC	0.04	500	0.0018 U	0.0075 J	NA	NA	0.002 U	NA	NA
Dieleadrin	0.005	1.4	0.0035 U	0.0041 U	NA	NA	0.0039 U	NA	NA
Endosulfan I	2.4	200	0.0018 U	0.0021 U	NA	NA	0.002 U	NA	NA
Endosulfan II	2.4	200	0.0047 JN	0.023 J	NA	NA	0.0039 U	NA	NA
Endosulfan sulfate	2.4	200	0.0065 JN	0.011 JN	NA	NA	0.0039 U	NA	NA
Endrin	0.014	89	0.0056 JN	0.033 J	NA	NA	0.0039 U	NA	NA
Endrin aldehyde	NE	NE	0.0035 U	0.0041 U	NA	NA	0.0039 U	NA	NA
Gamma-BHC	0.1	9.2	0.0018 U	0.0021 U	NA	NA	0.002 U	NA	NA
Heptachlor	0.042	15	0.0018 U	0.0021 U	NA	NA	0.002 U	NA	NA
Heptachlor epoxide	NE	NE	0.0021	0.0021 U	NA	NA	0.002 U	NA	NA
Methoxychlor	NE	NE	0.018 UJ	0.12 J	NA	NA	0.02 UJ	NA	NA
Total Pesticides	NE	NE	0.0429	0.2863	ND	ND	ND	ND	ND
<i>Herbicides (mg/kg)</i>									
T,2,4,5-	NE	NE	0.026 U	0.025 U	NA	NA	0.025 U	NA	NA
Total Herbicides	NE	NE	ND	ND	ND	ND	ND	ND	ND

Table 1
Subsurface Soil Interim Data Results Summary
Conklin Brass Property
Fulton Municipal Works Former Manufactured Gas Plant
Brooklyn, New York

Sample Name Depth Interval Sample Date	6 NYCRR 375 UNRESTRICTED USE SCO	6 NYCRR 375 RESTRICTED USE COMMERCIAL SCO	FW-SB-03 (2-5) 8/13/2008	FW-SB-03 (8-10) 8/13/2008	FW-SB-03 (15-17.5) 8/14/2008	FW-SB-03 (23.5-25) 8/13/2008	FW-SB-04 (0.5-3) 8/6/2008	FW-SB-04 (42-43) 8/6/2008	FW-SB-04 (48-50) 8/6/2008
Total Metals (mg/kg)									
Aluminum	NE	NE	5570	4800	3850	2660	3150	3470	3290
Antimony	NE	NE	13.6 UJ	15.4 UJ	14.1 UJ	15.3 UJ	14.7 UJ	14.7 UJ	14.6 UJ
Arsenic	13	16	4.3	1.6 J	3.3 J	7.7 U	2.1 J	1.2 J	7.3 U
Barium	350	400	73.7	15.3 J	15.6 J	20 J	39.4 J	33.5 J	23.6 J
Beryllium	7.2	590	0.46 J	2.2 U	0.36 J	2.1 U	2.1 U	2.1 U	2 U
Cadmium	2.5	9.3	6.8 U	7.7 U	7 U	7.7 U	7.4 U	7.3 U	7.3 U
Calcium	NE	NE	27600	503 J	1380 J	1120 J	18800	2760	6760
Chromium	NE	NE	11.8	11.2	9.6	6.3	14.8	10.4	7.4
Cobalt	NE	NE	5.8 J	3.2 J	4.2 J	3.4 J	3.1 J	5.4 J	4 J
Copper	50	270	45.8	10.9	15.8	7.6 J	20.5	19.2	7.6
Iron	NE	NE	12300	9030	9590	6370	8870	8140	7740
Lead	63	1000	340 J	30.4 J	3.8 J	2.7 J	44.5	16.7	2.9 J
Magnesium	NE	NE	8960	1840	3080	1780	3490	4950	4510
Manganese	1600	10,000	195	125	304	495	213	142	249
Mercury	0.18	2.8	1.6	0.024	0.051 U	0.06 U	0.055	0.059 U	0.057 U
Nickel	30	310	19.8 J	11.5 J	21.6 J	19.5 J	10.7 J	25.8 J	16.9 J
Potassium	NE	NE	1180 J	571 J	1060 J	592 J	832 J	989 J	725 J
Selenium	3.9	1500	1.7 J	15.4 U	14.1 U	15.3 U	14.7 U	14.7 U	14.6 U
Sodium	NE	NE	618 UJ	307 U	282 U	307 U	362 UJ	293 U	292 U
Vanadium	NE	NE	16.3	14.1 J	12.5 J	8.8 J	9.7 J	11.8 J	8.9 J
Zinc	109	10,000	181	18.6	19.6	15.3 J	44.5	92.3	16.1 J
Cyanides (mg/kg)									
Cyanide, Free	NE	NE	0.065 U	0.074 U	0.068 U	0.074 U	0.071 U	0.07 U	0.07 U

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Table 1
Subsurface Soil Interim Data Results Summary
Conklin Brass Property
Fulton Municipal Works Former Manufactured Gas Plant
Brooklyn, New York

Sample Name Depth Interval Sample Date	6 NYCRR 375 UNRESTRICTED USE SCO	6 NYCRR 375 RESTRICTED USE COMMERCIAL SCO	FW-SB-05 (3-5) 8/19/2008	FW-SB-05B (13-15) 8/21/2008	FW-SB-05B (45-50) 8/21/2008	FW-SB-06 (3-4) 7/31/2008	FW-SB-06 (13-14.5) 8/11/2008	FW-SB-06 (80-85) 8/14/2008	FW-SB-06 (95-98) 8/14/2008
BTEX (mg/kg)									
Benzene	0.06	44	0.0015 J	0.32 J	0.047 J	0.0057 U	0.6 U	0.66 J	0.016 J
Toluene	0.7	500	0.0039 J	2.3 U	0.0061	0.0017 J	0.6 U	0.26 J	0.011 J
Ethylbenzene	1	390	0.0058 U	36	0.11 J	0.0057 U	7.8	31	0.17
Xylene, total	0.26	500	0.0058 U	16	0.035	0.0057 U	3.1	22	0.15
Total BTEX	NE	NE	0.0054	52.32	0.1981	0.0017	10.9	53.92	0.347
Other VOCs (mg/kg)									
Acetone	0.05	500	0.023 U	5.8 U	0.024 U	0.023 U	1.5 U	2.7 U	0.12 U
Carbon disulfide	NE	NE	0.0021 J	2.3 U	0.0059 U	0.0057 U	0.6 U	1.1 U	0.03 U
Dichloroethene, cis-1,2-	0.25	500	0.0058 U	2.3 U	0.0059 U	0.0057 U	0.6 U	1.1 U	0.03 U
Methylene chloride	0.05	500	0.023 U	2.3 U	0.0024 U	0.023 U	0.6 U	1.1 U	0.12 U
Tetrachloroethene	1.3	150	0.0058 UJ	2.3 U	0.0059 U	0.0057 U	0.6 U	1.1 U	0.03 UJ
Trichloroethene	0.47	200	0.01	2.3 U	0.0059 U	0.0072	0.6 U	1.1 U	0.03 U
Total VOCs	NE	NE	0.0175	52.32	0.1981	0.0089	10.9	53.92	0.347
Non-carcinogenic PAHs (mg/kg)									
Acenaphthene	20	500	0.83 J	100	0.31	1.5 U	16	230	0.64
Acenaphthylene	100	500	9.2	15 J	0.13 J	11	11 J	33	0.58
Anthracene	100	500	4.3	42	0.18 J	6.6	11 J	100	0.72
Benzof[g,h,i]perylene	100	500	23	38 U	0.38 U	11	15 U	24 J	0.13 J
Fluoranthene	100	500	8.9	47	0.28 J	1.2 J	5.3 J	110	0.9
Fluorene	30	500	1.3 J	51	0.15 J	1.6	12 J	24 J	0.7
Methylnaphthalene,2-	NE	NE	0.99 J	190	0.25 J	3.2	92	160	0.11 J
Naphthalene	12	500	1.5 J	560	0.42	4	140	160	0.93
Phenanthrene	100	500	5.3	170	0.61	1.7	28	350	2.7
Pyrene	100	500	18	74	0.26 J	3.1	10 J	160	1.5
Total Non-carcinogenic PAHs	NE	NE	73.32	1249	2.59	43.4	325.3	1351	8.91
Carcinogenic PAHs (mg/kg)									
Benz[a]anthracene	1	5.6	8.8	24 J	0.12 J	2.4	4.2 J	60	0.48
Benz[a]pyrene	1	1	9.2	16 J	0.1 J	4.5	2.6 J	45	0.33
Benz[b]fluoranthene	1	5.6	12	12 J	0.078 J	3.4	15 U	31	0.26 J
Benz[k]fluoranthene	0.8	56	4	38 U	0.38 U	0.98 J	15 U	11 J	0.11 J
Chrysene	1	56	8.5	23 J	0.11 J	2.4	4.1 J	58	0.48
Dibenz[a,h]anthracene	0.33	0.56	2.3	38 U	0.38 U	1.4	15 U	5.7 J	0.4 U
Indeno[1,2,3-cd]pyrene	0.5	5.6	15	38 U	0.38 U	6.1	15 U	22 J	0.11 J
Total Carcinogenic PAHs	NE	NE	59.8	75	0.408	21.18	10.9	232.7	1.77
Total PAHs (mg/kg)									
Total PAHs	NE	NE	133.12	1324	2.998	64.58	336.2	1583.7	10.68

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Table 1
Subsurface Soil Interim Data Results Summary
Conklin Brass Property
Fulton Municipal Works Former Manufactured Gas Plant
Brooklyn, New York

Sample Name Depth Interval Sample Date	6 NYCRR 375 UNRESTRICTED USE SCO	6 NYCRR 375 RESTRICTED USE COMMERCIAL SCO	FW-SB-05 (3-5) 8/19/2008	FW-SB-05B (13-15) 8/21/2008	FW-SB-05B (45-50) 8/21/2008	FW-SB-06 (3-4) 7/31/2008	FW-SB-06 (13-14.5) 8/11/2008	FW-SB-06 (80-85) 8/14/2008	FW-SB-06 (95-98) 8/14/2008
<i>Other SVOCs (mg/kg)</i>									
Bis(2-ethylhexyl)phthalate	NE	NE	1.9 U	38 U	0.38 U	1.5 U	15 U	35 U	0.4 U
Carbazole	NE	NE	1.9 U	38 U	0.38 U	1.5 U	15 U	35 U	0.4 U
Dibenzofuran	7	350	0.79 J	38 U	0.38 U	0.32 J	15 U	35 U	0.4 U
Di-n-butyl phthalate	NE	NE	1.9 U	38 U	0.38 U	1.5 U	15 U	35 U	0.4 U
Total SVOCs	NE	NE	133.91	1324	2.998	64.9	336.2	1583.7	10.68
<i>PCBs (mg/kg)</i>									
Aroclor 1254	NE	NE	0.02 U	NA	NA	0.019 U	0.02 U	NA	NA
Aroclor 1260	NE	NE	0.02 U	NA	NA	0.019 U	0.02 U	NA	NA
Total PCBs	0.1	1	ND	ND	ND	ND	ND	ND	ND
<i>Pesticides (mg/kg)</i>									
Alpha-bhc	0.02	3.4	0.002 U	NA	NA	0.00085 J	0.002 U	NA	NA
Alpha-chlordane	0.094	24	0.002 U	NA	NA	R	0.018 J	NA	NA
Beta-BHC	0.036	3	0.002 U	NA	NA	R	0.002 U	NA	NA
Chlordane, trans-	NE	NE	0.002 U	NA	NA	R	0.029	NA	NA
DDD,4,4-	0.0033	92	0.027 JN	NA	NA	0.0067 JN	0.0076	NA	NA
DDE,4,4-	0.0033	62	0.01	NA	NA	R	0.017	NA	NA
DDT,4,4-	0.0033	47	0.034 JN	NA	NA	0.0037 UJ	0.012 U	NA	NA
Delta-BHC	0.04	500	0.0085 JN	NA	NA	R	0.002 U	NA	NA
Dieldrin	0.005	1.4	0.0038 U	NA	NA	R	0.012	NA	NA
Endosulfan I	2.4	200	0.002 U	NA	NA	R	0.002 U	NA	NA
Endosulfan II	2.4	200	0.011 JN	NA	NA	R	0.004 U	NA	NA
Endosulfan sulfate	2.4	200	0.0064 JN	NA	NA	R	0.004 U	NA	NA
Endrin	0.014	89	0.045 J	NA	NA	R	0.004 U	NA	NA
Endrin aldehyde	NE	NE	0.0038 U	NA	NA	R	0.004 U	NA	NA
Gamma-BHC	0.1	9.2	0.0028 JN	NA	NA	R	0.002 U	NA	NA
Heptachlor	0.042	15	0.002 UJ	NA	NA	0.0019 UJ	0.0045	NA	NA
Heptachlor epoxide	NE	NE	0.0057 JN	NA	NA	0.00051 J	0.0081 J	NA	NA
Methoxychlor	NE	NE	0.043 JN	NA	NA	R	0.02 U	NA	NA
Total Pesticides	NE	NE	0.1934	ND	ND	0.00806	0.0962	ND	ND
<i>Herbicides (mg/kg)</i>									
T,2,4,5-	NE	NE	0.022 U	NA	NA	0.022 U	0.01 J	NA	NA
Total Herbicides	NE	NE	ND	ND	ND	ND	0.01	ND	ND

Table 1
Subsurface Soil Interim Data Results Summary
Conklin Brass Property
Fulton Municipal Works Former Manufactured Gas Plant
Brooklyn, New York

Sample Name Depth Interval Sample Date	6 NYCRR 375 UNRESTRICTED USE SCO	6 NYCRR 375 RESTRICTED USE COMMERCIAL SCO	FW-SB-05 (3-5) 8/19/2008	FW-SB-05B (13-15) 8/21/2008	FW-SB-05B (45-50) 8/21/2008	FW-SB-06 (3-4) 7/31/2008	FW-SB-06 (13-14.5) 8/11/2008	FW-SB-06 (80-85) 8/14/2008	FW-SB-06 (95-98) 8/14/2008
Total Metals (mg/kg)									
Aluminum	NE	NE	6490	4630	3490	6940	5270	3790	3490
Antimony	NE	NE	14.5 UJ	14.4 UJ	14.7 UJ	14.4 UJ	15 UJ	13.4 UJ	15.2 UJ
Arsenic	13	16	20.7	1.1 J	7.3 U	12	7.5 U	1.1 J	1.2 J
Barium	350	400	150	25 J	27.9 J	54.2 J	38 J	23.6 J	24.3 J
Beryllium	7.2	590	0.47 J	2 U	2.1 U	0.74 J	2.1 U	1.9 U	2.1 U
Cadmium	2.5	9.3	0.8 J	7.2 U	7.3 U	7.2 U	7.5 U	6.7 U	7.6 U
Calcium	NE	NE	60200	543 J	9250	4150	560 J	10200	6170
Chromium	NE	NE	19.4	15	8.3	17.9	15.4	10.9	11.5
Cobalt	NE	NE	15.2	3.5 J	4 J	6.5 J	3.3 J	4.3 J	4.3 J
Copper	50	270	85.2	6.6 J	10.3	32.5 J	7.3 J	11.5	8.5
Iron	NE	NE	41200	10700	8490	19800	8070	10400	8190
Lead	63	1000	453	4.8	3.7	174 J	3.5 J	4.6 J	4.5 J
Magnesium	NE	NE	11100	2380	3850	2120	2360	5000	5350
Manganese	1600	10,000	507	136	195	275	88.7	373	166
Mercury	0.18	2.8	0.53 J	0.055 U	0.058 U	0.4	0.055 U	0.053 U	0.058 U
Nickel	30	310	29.2 J	14.6 J	15 J	22	17.8 J	25.8 J	31.9 J
Potassium	NE	NE	1170 J	775 J	908 J	818 J	665 J	1010 J	840 J
Selenium	3.9	1500	2.5 J	14.4 U	14.7 U	14.4 U	15 U	13.4 U	15.2 U
Sodium	NE	NE	1730 J	289 U	294 U	287 U	906 UJ	268 U	395 UJ
Vanadium	NE	NE	25.9	13.8 J	11.9 J	34.3	11.9 J	13.6	13.7 J
Zinc	109	10,000	258	22.7	20.7	59.3	17.1 J	23	21.1
Cyanides (mg/kg)									
Cyanide, Free	NE	NE	0.069 U	0.069 U	0.071 U	0.0069 J	0.072 U	0.064 U	0.073 U

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Table 1
Subsurface Soil Interim Data Results Summary
Conklin Brass Property
Fulton Municipal Works Former Manufactured Gas Plant
Brooklyn, New York

Sample Name Depth Interval Sample Date	6 NYCRR 375 UNRESTRICTED USE SCO	6 NYCRR 375 RESTRICTED USE COMMERCIAL SCO	FW-SB-07 (4-5) 7/31/2008	FW-SB-07 (30-32) 8/18/2008	FW-SB-07 (72-73) 8/25/2008	FW-SB-08 (4-5) 8/4/2008	FW-SB-08 (24-25) 8/7/2008	FW-SB-08 (95-100) 8/8/2008	Duplicate of: FW-SB-08 (95-100) 8/8/2008	FW-SS-06 (0.5-1) 8/28/2008
BTEX (mg/kg)										
Benzene	0.06	44	0.0012 J	3.6	0.016	0.0059 U	5.8	0.0055 U	0.0056 U	0.0032 J
Toluene	0.7	500	0.002 J	0.63 U	0.006 U	0.0027 J	2.3 U	0.0055 U	0.0056 U	0.0061
Ethylbenzene	1	390	0.0056 U	2.4	0.026	0.0059 U	46	0.0055 U	0.0056 U	0.0052 U
Xylene, total	0.26	500	0.0056 U	1.3	0.035	0.0059 U	8.4	0.0055 U	0.0056 U	0.0052 U
Total BTEX	NE	NE	0.0032	7.3	0.077	0.0027	60.2	ND	ND	0.0093
Other VOCs (mg/kg)										
Acetone	0.05	500	0.022 U	1.6 U	0.024 U	0.035 UJ	5.7 U	0.022 U	0.022 U	0.021 U
Carbon disulfide	NE	NE	0.0056 U	0.22 J	0.006 UJ	0.0059 U	2.3 U	0.0055 U	0.0056 U	0.0052 U
Dichloroethene, cis-1,2-	0.25	500	0.0056 U	0.63 U	0.006 U	0.0059 U	2.3 U	0.0055 U	0.0056 U	0.0052 U
Methylene chloride	0.05	500	0.022 U	0.63 U	0.024 U	0.023 U	2.3 U	0.022 U	0.022 U	0.021 U
Tetrachloroethene	1.3	150	0.0056 U	0.63 U	0.006 UJ	0.0059 U	2.3 U	0.0055 U	0.0056 U	0.0052 U
Trichloroethene	0.47	200	0.0041 J	0.63 U	0.006 U	0.013	2.3 U	0.0055 U	0.0056 U	0.0061
Total VOCs	NE	NE	0.0073	7.52	0.077	0.0157	60.2	ND	ND	0.0154
Non-carcinogenic PAHs (mg/kg)										
Acenaphthene	20	500	0.08 J	54	0.31 U	0.38 U	31	0.36 U	0.37 U	0.26 U
Acenaphthylene	100	500	4.1	36	0.31 U	2	18	0.36 U	0.37 U	0.29
Anthracene	100	500	1.7	41	0.31 U	1.3	19	0.36 U	0.37 U	0.24 J
Benzol[g,h,i]perylene	100	500	2.6	7.5 J	0.31 U	2.8	19 U	0.36 U	0.37 U	0.56 J
Fluoranthene	100	500	0.5	37	0.31 U	2.5	20	0.36 U	0.37 U	1.2
Fluorene	30	500	0.42	43	0.31 U	0.28 J	21	0.36 U	0.37 U	0.061 J
Methylnaphthalene,2-	NE	NE	0.1 J	230	0.31 U	0.39	98	0.36 U	0.37 U	0.12 J
Naphthalene	12	500	0.17 J	230	0.31 U	0.51	220	0.36 U	0.37 U	0.083 J
Phenanthrene	100	500	0.24 J	140	0.31 U	1.5	64	0.36 U	0.37 U	0.61
Pyrene	100	500	0.94	74	0.31 U	4.9	23 J	0.36 U	0.37 U	0.89
Total Non-carcinogenic PAHs	NE	NE	10.85	892.5	ND	16.18	514	ND	ND	4.054
Carcinogenic PAHs (mg/kg)										
Benz[a]anthracene	1	5.6	0.68	27	0.31 U	2.8	10 J	0.36 U	0.37 U	0.72
Benz[a]pyrene	1	1	1.7	17	0.31 U	2.5	8.7 J	0.36 U	0.37 U	0.78 J
Benz[b]fluoranthene	1	5.6	1.9	10 J	0.31 U	2.6 J	5.7 J	0.36 U	0.37 U	1.1 J
Benz[k]fluoranthene	0.8	56	0.56	3.2 J	0.31 U	0.84 J	19 U	0.36 U	0.37 U	0.36 J
Chrysene	1	56	0.9	27	0.31 U	2.6	10 J	0.36 U	0.37 U	0.9
Dibenz[a,h]anthracene	0.33	0.56	0.26 J	21 U	0.31 U	0.65	19 U	0.36 U	0.37 U	0.25 J
Indeno[1,2,3-cd]pyrene	0.5	5.6	1.7	5.4 J	0.31 U	2.7	19 U	0.36 U	0.37 U	0.56 J
Total Carcinogenic PAHs	NE	NE	7.7	89.6	ND	14.69	34.4	ND	ND	4.67
Total PAHs (mg/kg)										
Total PAHs	NE	NE	18.55	982.1	ND	30.87	548.4	ND	ND	8.724

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Table 1
Subsurface Soil Interim Data Results Summary
Conklin Brass Property
Fulton Municipal Works Former Manufactured Gas Plant
Brooklyn, New York

Sample Name Depth Interval Sample Date	6 NYCRR 375 UNRESTRICTED USE SCO	6 NYCRR 375 RESTRICTED USE COMMERCIAL SCO	FW-SB-07 (4-5) 7/31/2008	FW-SB-07 (30-32) 8/18/2008	FW-SB-07 (72-73) 8/25/2008	FW-SB-08 (4-5) 8/4/2008	FW-SB-08 (24-25) 8/7/2008	FW-SB-08 (95-100) 8/8/2008	Duplicate of: FW-SB-08 (95-100) 8/8/2008	FW-SS-06 (0.5-1) 8/28/2008
Other SVOCs (mg/kg)										
Bis(2-ethylhexyl)phthalate	NE	NE	0.36 U	21 U	0.31 U	0.38 U	19 U	0.36 U	0.37 U	0.26 U
Carbazole	NE	NE	0.36 U	21 U	0.31 U	0.38 U	19 U	0.36 U	0.37 U	0.059 J
Dibenzofuran	7	350	0.36 U	21 U	0.31 U	0.38 U	19 U	0.36 U	0.37 U	0.26 U
Di-n-butyl phthalate	NE	NE	0.36 U	21 U	0.31 U	0.38 U	19 U	0.36 U	0.37 U	0.42
Total SVOCs	NE	NE	18.55	982.1	ND	30.87	548.4	ND	ND	9.203
PCBs (mg/kg)										
Aroclor 1254	NE	NE	0.019 U	NA	NA	0.02 UJ	NA	NA	NA	0.027 J
Aroclor 1260	NE	NE	0.019 U	NA	NA	0.02 UJ	NA	NA	NA	0.079
Total PCBs	0.1	1	ND	ND	ND	ND	ND	ND	ND	0.106
Pesticides (mg/kg)										
Alpha-bhc	0.02	3.4	0.0019 U	NA	NA	0.002 UJ	NA	NA	NA	0.0018 U
Alpha-chlordane	0.094	24	0.0019 U	NA	NA	0.002 UJ	NA	NA	NA	0.0086 J
Beta-BHC	0.036	3	0.0019 U	NA	NA	0.002 UJ	NA	NA	NA	0.0018 U
Chlordane, trans-	NE	NE	0.0019 U	NA	NA	0.002 UJ	NA	NA	NA	0.0091 JN
DDD,4,4-	0.0033	92	0.004 JN	NA	NA	0.016 J	NA	NA	NA	0.0059 JN
DDE,4,4-	0.0033	62	0.0037 U	NA	NA	0.0039 UJ	NA	NA	NA	0.0039 JN
DDT,4,4-	0.0033	47	0.0037 UJ	NA	NA	0.0083 J	NA	NA	NA	0.019 J
Delta-BHC	0.04	500	0.0019 U	NA	NA	0.002 UJ	NA	NA	NA	0.0018 U
Dieldrin	0.005	1.4	0.0037 UJ	NA	NA	0.0039 UJ	NA	NA	NA	0.0054
Endosulfan I	2.4	200	0.0019 U	NA	NA	0.002 UJ	NA	NA	NA	0.0018 U
Endosulfan II	2.4	200	0.0037 U	NA	NA	0.0044 J	NA	NA	NA	0.0034 U
Endosulfan sulfate	2.4	200	0.0037 U	NA	NA	0.0039 UJ	NA	NA	NA	0.0034 U
Endrin	0.014	89	0.0037 UJ	NA	NA	0.011 J	NA	NA	NA	0.0034 U
Endrin aldehyde	NE	NE	0.0037 UJ	NA	NA	0.0039 UJ	NA	NA	NA	0.0034 U
Gamma-BHC	0.1	9.2	0.0019 U	NA	NA	0.002 UJ	NA	NA	NA	0.0018 U
Heptachlor	0.042	15	0.0019 U	NA	NA	0.002 UJ	NA	NA	NA	0.0036 J
Heptachlor epoxide	NE	NE	0.0019 U	NA	NA	0.002 UJ	NA	NA	NA	0.0018 U
Methoxychlor	NE	NE	0.019 U	NA	NA	0.02 UJ	NA	NA	NA	0.018 U
Total Pesticides	NE	NE	0.004	ND	ND	0.0397	ND	ND	ND	0.0555
Herbicides (mg/kg)										
T,2,4,5-	NE	NE	0.023 U	NA	NA	0.022 U	NA	NA	NA	0.021 UJ
Total Herbicides	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND

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Table 1
Subsurface Soil Interim Data Results Summary
Conklin Brass Property
Fulton Municipal Works Former Manufactured Gas Plant
Brooklyn, New York

Sample Name Depth Interval Sample Date	6 NYCRR 375 UNRESTRICTED USE SCO	6 NYCRR 375 RESTRICTED USE COMMERCIAL SCO	FW-SB-07 (4-5) 7/31/2008	FW-SB-07 (30-32) 8/18/2008	FW-SB-07 (72-73) 8/25/2008	FW-SB-08 (4-5) 8/4/2008	FW-SB-08 (24-25) 8/7/2008	FW-SB-08 (95-100) 8/8/2008	Duplicate of: FW-SB-08 (95-100) 8/8/2008	FW-SS-06 (0.5-1) 8/28/2008
Total Metals (mg/kg)										
Aluminum	NE	NE	4550	3600	2020	3670	3450	3510	3670	6180
Antimony	NE	NE	14 UJ	10.5 UJ	11.7 U	14.6 UJ	14.3 UJ	13.8 UJ	13.9 UJ	10.3 U
Arsenic	13	16	5.5	5.3 U	5.8 U	1.7 J	1.8 J	1.5 J	1.7 J	7.8
Barium	350	400	31.8 J	40.6 J	11.9 J	32.9 J	27 J	55.3	53.9 J	159
Beryllium	7.2	590	0.54 J	1.5 U	1.6 U	2 U	2 U	1.9 U	1.9 U	0.46 J
Cadmium	2.5	9.3	7 U	5.3 U	5.8 U	7.3 U	7.1 U	6.9 U	7 U	5.2 U
Calcium	NE	NE	1360 J	1240	4520	2280	1130 J	6810	8970	71400
Chromium	NE	NE	12	6.6	5	8.6	10.4	11.2	10.3	24.1
Cobalt	NE	NE	5.2 J	4.5 J	2.1 J	3.6 J	4 J	6.2 J	5.2 J	5.3 J
Copper	50	270	26.6 J	11.2	5.6 J	14.3	8.7	14.7	11.8	74.1
Iron	NE	NE	9200	8680	5010	7370	8390	9610	8910	15200
Lead	63	1000	87.4 J	3.3	2.2 J	59.7	3.2	4.3	5.4	131
Magnesium	NE	NE	2070	2690	2540	1550	2420	7690	6960	25200
Manganese	1600	10,000	99.3	148	160	124	109	280	285	215
Mercury	0.18	2.8	0.098	0.057 U	0.057 U	0.12	0.054 U	0.052 U	0.053 U	0.27
Nickel	30	310	23.5	21.6 J	8.6 J	13.5 J	17.6 J	57.9 J	46.4 J	22.2 J
Potassium	NE	NE	625 J	514 J	421 J	487 J	774 J	961 J	939 J	1940 J
Selenium	3.9	1500	14 U	10.5 U	1.1 J	14.6 U	14.3 U	13.8 U	13.9 U	1.3 J
Sodium	NE	NE	280 U	210 U	359 UJ	293 U	285 U	634 UJ	671 UJ	289 UJ
Vanadium	NE	NE	16.9	8.8 J	7.5 J	10.8 J	11.3 J	13.8	12.7 J	34.7
Zinc	109	10,000	84.4	20	9.8 J	46.9	16.8 J	23.7	29	208
Cyanides (mg/kg)										
Cyanide, Free	NE	NE	0.067 U	0.076 U	0.072 U	0.07 U	0.068 U	0.066 U	0.067 U	0.062 U

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Fulton_R2_SO_Table

Table 1
Subsurface Soil Interim Data Results Summary
Conklin Brass Property
Fulton Municipal Works Former Manufactured Gas Plant
Brooklyn, New York

Notes:

mg/kg - milligrams/kilogram or parts per million (ppm)

BTEX - benzene, toluene, ethylbenzene, and xylenes

VOCs - volatile organic compounds

PAHs - polycyclic aromatic hydrocarbons

SVOCs - semivolatile organic compounds

PCBs - Polychlorinated Biphenyls

Total BTEX, Total VOCs, Total PAHs, Total SVOCs, Total PCBs, Total Pesticides, and Total Herbicides are calculated using detects only.

6 NYCRR -New York State Register and Official Compilation of Codes, Rules and Regulations of the State of New York

6 NYCRR 375 UNRESTRICTED USE SCO - comparison against NYCRR, Chapter IV, Part 375-6 Unrestricted Use Soil Cleanup Objectives.

6 NYCRR 375 RESTRICTED USE COMMERCIAL SCO - comparison against NYCRR, Chapter IV, Part 375-6 Restricted Use Commercial Soil Cleanup Objectives.

NE- not established

NA - not analyzed

ND - not detected; total concentration is listed as ND because no compounds were detected in the group.

Bolding indicates a detected result value.

Gray shading and bolding indicates that the detected result value exceeds established 6 NYCRR UNRESTRICTED USE SCO.

Yellow shading and bolding indicates that the detected result value exceeds established 6 NYCRR SCO UNRESTRICTED USE and 6 NYCRR RESTRICTED USE COMMERCIAL SCO.

Validation Qualifiers:

J - estimated value

JN - analyte is presumptively present at an approximated quantity.

U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis.

UJ - not detected at or above the reporting limit shown and the reporting limit is estimated.

R - rejected



LEGEND

APPROXIMATE CURRENT PROPERTY BOUNDARY

APPROXIMATE BOUNDARY OF FORMER
MANUFACTURED GAS PLANT (MGP) SITE

HISTORIC STRUCTURE

PREVIOUS SAMPLES

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL
CONSERVATION (NYSDEC) SITE CHARACTERIZATION (SC)
BORING LOCATION

NYSDEC SC MONITORING WELL LOCATION

KEYSPAN GOWANUS CANAL INVESTIGATION BORING
LOCATION

REMEDIAL INVESTIGATION LOCATIONS

REMEDIAL INVESTIGATION (RI) MONITORING WELL
LOCATION

RI SOIL BORING LOCATION

RI SOIL BORING WITH TEMPORARY
GROUNDWATER SAMPLE LOCATION

RI SURFACE SOIL SAMPLE LOCATION

RI SOIL VAPOR POINT

RI INDOOR AIR SAMPLE LOCATION

RI OUTDOOR AIR SAMPLE LOCATION

SOURCES:

1. PHOTOGRAPH OBTAINED FROM BLUE SKY INTERNATIONAL LTD. ALL RIGHTS RESERVED. COPYRIGHT 2006.
2. SANBORN FIRE INSURANCE MAPS (1886 THROUGH 1996).
3. SITE CHARACTERIZATION REPORT, FULTON FORMER MANUFACTURED GAS PLANT, BROOKLYN (II), KING'S COUNTY, NEW YORK, SITE No. 2-24-051, SEPTEMBER 2007, PREPARED BY NYSDEC REMEDIAL BUREAU C., DIVISION OF ENVIRONMENTAL REMEDIATION.
4. NEW YORK CITY OPEN ACCESSIBLE SPACE INFORMATION SYSTEM <http://www.oasisnyc.net>, ACCESSED JANUARY 2008.
5. SURVEY OF EXISTING CONDITIONS AND SAMPLE LOCATIONS CONDUCTED BY GEI CONSULTANTS, INC. ON 08/05/08 AND 08/28/08. SURVEY BY NEW YORK STATE LICENSED LAND SURVEYOR NUMBER 050146.
HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM (EAST ZONE, NORTH AMERICAN DATUM (NAD83)). VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM (NAVD) 88.

NOTE:

1. THE LOCATION OF THE PREVIOUS NYSDEC SC BORINGS AND MONITORING WELLS HAVE NOT BEEN SURVEYED AND SHOULD BE CONSIDERED APPROXIMATE.

FORMER CONKLIN BRASS PROPERTY
270 NEVINS STREET
PHASE II REMEDIAL INVESTIGATION
FULTON MUNICIPAL WORKS FORMER MGP
BOROUGH OF BROOKLYN, NEW YORK



EXISTING CONDITIONS AND
SAMPLE LOCATIONS

nationalgrid

Project 081190-1-1106 | October 2008 | Figure 1



GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT NAME: Fulton Municipal Works MGP
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 081190

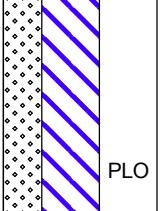
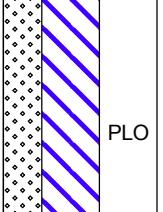
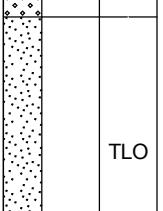
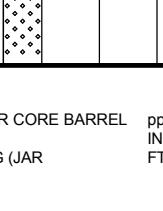
BORING LOG

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FW-MW-01

GROUND SURFACE ELEVATION (FT): 10.18 LOCATION: Conklin Brass Parking Lot
 NORTHING: 673048.994 EASTING: 634199.6985 TOTAL DEPTH (FT): 66.00
 DRILLED BY: ADT / Jamey Meyers DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
 LOGGED BY: Matt Sweet DATE START / END: 8/1/2008 - 8/15/2008
 DRILLING DETAILS: Geoprobe
 WATER LEVEL DEPTHS (FT): ▽ 5.50

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
0									0 - 0.33 ASPHALT. 0.33 - 5 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine to coarse; ~10% cobbles, max. size 10 in., dry, dark brown, FILL, pieces of brick, some slag/coal fragments, HAND CLEARED.
5	S-1	5.0	2	1.4	0.0			FW-MW-01 (3-4)	5 - 10 SILTY SAND (SM); ~80% sand, fine to medium, ~15% fines, non plastic, ~5% gravel, coarse, subrounded; max. size 0.25 in., wet, blackish brown.
10	S-2	5.0		12.7					10 - 11 SILTY SAND WITH GRAVEL (SM); ~60% sand, fine to coarse, ~25% gravel, coarse, subrounded, ~15% fines, non plastic; max. size 1 in., wet, gray. 11 - 14 SILTY SAND (SM); ~80% sand, ~20% fines, non plastic; wet, gray.
15									14 - 15 SILT WITH SAND (ML); ~85% fines, low plasticity, ~15% sand, fine; wet, gray.
NOTES:									
PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL REC = RECOVERY LENGTH OF SAMPLE PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)					ppm = PARTS PER MILLION IN. = INCHES FT. = FEET	NLO = NAPHTHALENE LIKE ODOR PLO = PETROLEUM LIKE ODOR TLO = TAR LIKE ODOR CLO = CHEMICAL LIKE ODOR ALO = ASPHALT LIKE ODOR	CrLO= CREOSOTE LIKE ODOR OLO = ORGANIC LIKE ODOR SLO = SULFUR LIKE ODOR MLO = MUSTY LIKE ODOR		

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DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	PAGE	FW-MW-01
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					2 of 4	
11/6/08	15	S-3	5.0	28	135		PLO	FW-MW-01 (15-17)	15 - 20 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, fine, subangular, ~5% fines, non plastic; max. size 0.25 in., slight petroleum-like odor, wet, brown and brownish gray, slight diesel-like odor, sheen.	
	20	S-4	5.0	35	362		PLO		20 - 25 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, fine, subangular, ~5% fines, non plastic; max. size 0.25 in., slight petroleum-like odor, wet, grayish brown, slight diesel-like odor, sheen, lens of gravelly sand at 20.5-21 ft. bgs.	
	25	S-5	5.0	26	33.7		TLO		25 - 26.5 WIDELY GRADED SAND (SW); ~95% sand, medium to coarse, ~5% fines, non plastic; slight tar-like odor, moist to wet, gray.	
	30	S-6	5.0	28	46.5		TLO		26.5 - 30 NARROWLY GRADED SAND (SP); ~95% sand, fine, ~5% fines; slight tar-like odor, moist to wet, grayish brown.	
NOTES:										
ENVIRONMENTAL BORING LOG FULTON RI BORING LOGS GPU GEI CONSULTANTS.GDT 11/6/08				PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL REC = RECOVERY LENGTH OF SAMPLE PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)				ppm = PARTS PER MILLION IN. = INCHES FT. = FEET	NLO = NAPHTHALENE LIKE ODOR PLO = PETROLEUM LIKE ODOR TLO = TAR LIKE ODOR CLO = CHEMICAL LIKE ODOR ALO = ASPHALT LIKE ODOR	CrLO= CREOSOTE LIKE ODOR OLO = ORGANIC LIKE ODOR SLO = SULFUR LIKE ODOR MLO = MUSTY LIKE ODOR



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CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 081190

BORING LOG

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FW-MW-01

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
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ppm = PARTS PER MILLION
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OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

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							PROJECT NAME: Fulton Municipal Works MGP		PAGE	FW-MW-01					
							CITY/STATE: Brooklyn, New York		4 of 4						
							GEI PROJECT NUMBER: 081190								
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION						
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)											
50	S-10	5.0	20	11.3	Dotted pattern	NLO	NLO	FW-MW-01 (50-60)	50 - 55 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% gravel, coarse, subangular; max. size 1.25 in., slight naphthalene-like odor, wet, brown.						
55	S-11	5.0	0	8.4					55 - 60 NO RECOVERY.						
60	S-12	5.0	35	6.3					60 - 65 SILTY SAND WITH GRAVEL (SM); ~70% sand, fine, ~15% gravel, fine, subrounded, ~15% fines, non plastic; max. size 0.25 in., slight naphthalene-like odor, wet, brown, sheen.						
65	S-13	1.0	6	4.6	Dotted pattern	TLO	FW-MW-01 (65-66)		65 - 66 SILTY SAND WITH GRAVEL (SM); ~70% sand, fine, ~15% gravel, fine, subrounded, ~15% fines, non plastic; max. size 0.25 in., slight tar-like odor, wet, brown, tar lens at 65 ft. bgs.						
									Refusal at 66.0 feet. Bottom of borehole at 66.0 feet.						
NOTES:															
PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL REC = RECOVERY LENGTH OF SAMPLE PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)				ppm = PARTS PER MILLION IN. = INCHES FT. = FEET				NLO = NAPHTHALENE LIKE ODOR PLO = PETROLEUM LIKE ODOR TLO = TAR LIKE ODOR CLO = CHEMICAL LIKE ODOR ALO = ASPHALT LIKE ODOR							
								CrLO= CREOSOTE LIKE ODOR OLO = ORGANIC LIKE ODOR SLO = SULFUR LIKE ODOR MLO = MUSTY LIKE ODOR							



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PROJECT NAME: Fulton Municipal Works MGP
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 081190

BORING LOG

FW-MW-01A

GROUND SURFACE ELEVATION (FT):	11.56	LOCATION:	Conklin Brass Parking Lot
NORTHING:	673042.1809	EASTING:	634212.5311
DRILED BY:	ADT / Chris Capobianco		
LOGGED BY:	Serkan Talip		
DRILLING DETAILS:	Hollow Stem Auger		
WATER LEVEL DEPTHS (FT):	▼ 6.50		
TOTAL DEPTH (FT):	19.00		
DATUM VERT. / HORIZ.:	NAVD 88 / NAD83 NY East Zone		
DATE START / END:	8/1/2008 - 8/27/2008		

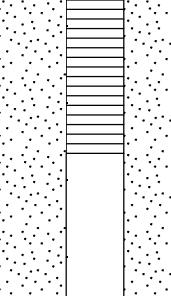
NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTIONIZATION DETECTOR READING (JAR
HEADSPACE)

ppm = PARTS PER MILLION
IN. = INCHES
FT = FEET

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PLO = PETROLEUM LIKE ODOR
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OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

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DEPTH FT.	SAMPLE INFORMATION					STRATA	SOIL / BEDROCK DESCRIPTION		WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)				
15	S-3	2.0	4	10-4-3-3	0		15 - 17 WIDELY GRADED SAND; ~95% sand, fine to coarse, ~5% fines, non plastic; wet, brown.		
Bottom of borehole at 19.0 feet.									
NOTES: PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR CrLO= CREOSOTE LIKE ODOR PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR OLO = ORGANIC LIKE ODOR ALO = ASPHALT LIKE ODOR CLO = CHEMICAL LIKE ODOR SLO = SULFUR LIKE ODOR MLO = MUSTY LIKE ODOR									



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BORING LOG

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FW-MW-01R

GROUND SURFACE ELEVATION (FT): 11.38

NORTHING: 673253.341 EASTING: 634319.6431

DRILLED BY: ADT / Chris Capobianco

LOGGED BY: Serkan Talip

DRILLING DETAILS: Hollow Stem Auger

WATER LEVEL DEPTHS (FT): 11.00

LOCATION: Degraw Street

TOTAL DEPTH (FT): 18.00

DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone

DATE START / END: 8/26/2008 - 8/28/2008

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)					
0								0 - 5 HAND CLEARED.	
5	S-1	2.0	4	28-8-2-2	██████			5 - 7 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~10% gravel, fine; max. size 0.25 in., dry, brown.	
10	S-2	2.0	7	3-13-10-4	██████	████████	PLO	10 - 11 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, fine, ~5% fines; max. size 0.25 in., moist, brown. 11 - 12 SILTY SAND (SM); ~85% sand, fine, ~15% fines; slight petroleum-like odor, wet, dark brown, sheen and petroleum staining.	
15									

ENVIRONMENTAL BORING LOG FULTON RI BORING LOGS GPU GEI CONSULTANTS GDT 11/6/08

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
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ppm = PARTS PER MILLION
 IN. = INCHES
 FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
 PLO = PETROLEUM LIKE ODOR
 TLO = TAR LIKE ODOR
 CLO = CHEMICAL LIKE ODOR
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 OLO = ORGANIC LIKE ODOR
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BORING LOG

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DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)					
15	S-3	2.0	3	6-7-7-8			PLO	15 - 17 SILTY SAND (SM); ~70% sand, fine, ~15% gravel, fine, ~15% fines; max. size 0.5 in., slight petroleum-like odor, wet, dark brown, sheen and petroleum staining.	

Bottom of borehole at 18.0 feet.

NOTES:

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NLO = NAPHTHALENE LIKE ODOR
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SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

 GEI Consultants	GEI Consultants, Inc. 455 Winding Brook Road Glastonbury, CT 06033 (860) 368-5300					CLIENT: <u>National Grid</u> PROJECT NAME: <u>Fulton Municipal Works MGP</u> CITY/STATE: <u>Brooklyn, New York</u> GEI PROJECT NUMBER: <u>081190</u>		BORING LOG	
						PAGE 1 of 1	FW-MW-01R refusal		
GROUND SURFACE ELEVATION (FT): <u>11.38</u> NORTHING: <u>673253.341</u> EASTING: <u>634319.6431</u> DRILLED BY: <u>ADT / Chris Capobianco</u> LOGGED BY: <u>Serkan Talip</u> DRILLING DETAILS: <u>Hollow Stem Auger</u> WATER LEVEL DEPTHS (FT): _____						LOCATION: <u>Degraw Street</u> TOTAL DEPTH (FT): <u>9.00</u> DATUM VERT. / HORZ.: <u>NAVD 88 / NAD83 NY East Zone</u> DATE START / END: <u>7/31/2008 - 8/26/2008</u>			
DEPTH FT.	SAMPLE INFORMATION					STRATA	SOIL / BEDROCK DESCRIPTION		
	TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)				
0				0		0 - 5 HAND CLEARED.			
5	S-1	2.0	13	20-12-8- 10	0		5 - 6 WIDELY GRADED SAND WITH GRAVEL; ~75% sand, fine to coarse, ~25% gravel, coarse, subangular, ~0% fines; dry, dark brown. 6 - 9 WIDELY GRADED SAND; ~80% sand, fine to medium, ~10% gravel, coarse, subangular, ~10% fines, non plastic; trace brick fragments, dry, light brown, Auger refusal at 9ft (timber).		
							Refusal at 9.0 feet. Bottom of borehole at 9.0 feet.		
NOTES: PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL REC = RECOVERY LENGTH OF SAMPLE PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) ppm = PARTS PER MILLION IN. = INCHES FT. = FEET NLO = NAPHTHALENE LIKE ODOR PLO = PETROLEUM LIKE ODOR TLO = TAR LIKE ODOR CLO = CHEMICAL LIKE ODOR ALO = ASPHALT LIKE ODOR CrLO = CREOSOTE LIKE ODOR OLO = ORGANIC LIKE ODOR SLO = SULFUR LIKE ODOR MLO = MUSTY LIKE ODOR									
ENVIRONMENTAL BORING LOG FULTON RI BORING LOGS GPU GEI CONSULTANTS GDT 11/6/08									



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BORING LOG

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FW-MW-02

GROUND SURFACE ELEVATION (FT): 13.26 LOCATION: Conklin Brass Parking Lot
NORTHING: 673012.2131 EASTING: 634301.9928 TOTAL DEPTH (FT): 75.00
DRILLED BY: ADT / Jamey Meyers DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
LOGGED BY: Matt Sweet DATE START / END: 8/1/2008 - 8/22/2008
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): ▽ 15.00

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
0					0				0 - 0.2 ASPHALT. 0.2 - 1 CONCRETE. 1 - 5 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~15% gravel, fine to coarse, ~5% fines; ~10% cobbles, max. size 7 in., dry, dark brown, HAND CLEARED.
5	S-1	5.0	18	2					5 - 10 SILTY SAND (SM); ~70% sand, fine to coarse, ~25% fines, ~5% gravel, fine to medium; dry, orangeish brown, fine to coarse sand bottom at 8.3-10 ft. bgs.
10	S-2	5.0	28	112					10 - 15 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium, ~5% gravel, fine; max. size 0.25 in., moist, blackish brown.
15									

ENVIRONMENTAL BORING LOG FULTON MW BORING LOGS GPU GEI CONSULTANTS GDT 11/6/08

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CLO = CHEMICAL LIKE ODOR
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 <p>GEI Consultants</p> <p>GEI Consultants, Inc. 455 Winding Brook Road Glastonbury, CT 06033 (860) 368-5300</p>								CLIENT: National Grid		BORING LOG			
								PROJECT NAME: Fulton Municipal Works MGP	PAGE 2 of 5	FW-MW-02			
								CITY/STATE: Brooklyn, New York					
								GEI PROJECT NUMBER: 081190					
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID		SOIL / BEDROCK DESCRIPTION			
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)									
15	S-3	5.0	18	2115					15 - 20 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~15% gravel, fine to coarse, subrounded, ~5% fines; wet, black, diesel staining, moderate diesel-like odor.				
20	S-4	5.0	13	9999					20 - 25 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% gravel, fine to coarse; max. size 0.5 in., wet, black, diesel staining, moderate diesel-like odor.				
25	S-5	5.0	18	7681					25 - 30 WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand, fine to coarse, ~25% gravel, fine to coarse; wet, blackish brown, diesel staining, strong diesel-like odor.				
30	S-6	5.0	12	9999			TLO		30 - 35 WIDELY GRADED GRAVEL WITH SAND (GW); ~51% gravel, fine to coarse, ~49% sand, fine to coarse; max. size 1 in., moderate tar-like odor, wet, blackish brown, tar staining.				
NOTES:													
PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL REC = RECOVERY LENGTH OF SAMPLE PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)				ppm = PARTS PER MILLION IN. = INCHES FT. = FEET				NLO = NAPHTHALENE LIKE ODOR PLO = PETROLEUM LIKE ODOR TLO = TAR LIKE ODOR CLO = CHEMICAL LIKE ODOR ALO = ASPHALT LIKE ODOR					
								CrLO= CREOSOTE LIKE ODOR OLO = ORGANIC LIKE ODOR SLO = SULFUR LIKE ODOR MLO = MUSTY LIKE ODOR					

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							PROJECT NAME: Fulton Municipal Works MGP	CITY/STATE: Brooklyn, New York	PAGE 3 of 5	FW-MW-02	
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION		
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)							
35	S-7	5.0	1		TLO				35 - 40 WIDELY GRADED GRAVEL WITH SAND (GW); ~51% gravel, fine to coarse, ~49% sand, fine to coarse; max. size 1 in., moderate tar-like odor, wet, blackish brown, tar staining, mostly water.		
40	S-8	5.0	9	851	TLO				40 - 45 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~15% gravel, fine to coarse, ~5% fines; strong tar-like odor, wet, blackish brown.		
45	S-9	5.0	8	3351	TLO				45 - 50 NARROWLY GRADED SAND WITH GRAVEL (SP); ~60% sand, medium to coarse, ~40% gravel, fine to coarse; max. size 1 in., moderate tar-like odor, wet, blackish brown.		
50	NOTES: PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR CrLO= CREOSOTE LIKE ODOR PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR OLO = ORGANIC LIKE ODOR ALO = ASPHALT LIKE ODOR CLO = CHEMICAL LIKE ODOR SLO = SULFUR LIKE ODOR MLO = MUSTY LIKE ODOR										

 GEI Consultants								GEI Consultants, Inc. 455 Winding Brook Road Glastonbury, CT 06033 (860) 368-5300			CLIENT: <u>National Grid</u> PROJECT NAME: <u>Fulton Municipal Works MGP</u> CITY/STATE: <u>Brooklyn, New York</u> GEI PROJECT NUMBER: <u>081190</u>			BORING LOG		
											PAGE 4 of 5		FW-MW-02			
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION							
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)												
50	S-10	5.0	0						50 - 55 NO RECOVERY.							
55	S-11	5.0	5	478					55 - 60 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine to coarse; slight tar-like odor, moist, blackish brown.							
60	S-12	5.0	9	1629			TLO		60 - 65 NARROWLY GRADED SAND WITH GRAVEL (SP); ~75% sand, fine to medium, ~15% gravel, fine to coarse, ~10% fines; max. size 1 in., slight naphthalene-like odor, wet, blackish brown.							
65	S-13	5.0	32				NLO		65 - 70 WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to medium, ~15% gravel, fine and coarse, ~10% fines; max. size 1 in., slight naphthalene-like odor, wet, brown.							
NOTES:																
PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL REC = RECOVERY LENGTH OF SAMPLE PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)					ppm = PARTS PER MILLION IN. = INCHES FT. = FEET					NLO = NAPHTHALENE LIKE ODOR PLO = PETROLEUM LIKE ODOR TLO = TAR LIKE ODOR CLO = CHEMICAL LIKE ODOR ALO = ASPHALT LIKE ODOR					CrLO= CREOSOTE LIKE ODOR OLO = ORGANIC LIKE ODOR SLO = SULFUR LIKE ODOR MLO = MUSTY LIKE ODOR	

GEI		GEI Consultants, Inc. 455 Winding Brook Road Glastonbury, CT 06033 (860) 368-5300				CLIENT: National Grid PROJECT NAME: Fulton Municipal Works MGP CITY/STATE: Brooklyn, New York GEI PROJECT NUMBER: 081190				BORING LOG		
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION		PAGE 5 of 5	FW-MW-02
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)								
70	S-14	5.0	24	9.4			NLO	FW-MW-02 (73-75)	70 - 75 SILTY SAND WITH GRAVEL (SM); ~60% sand, fine to medium, ~25% gravel, fine to coarse, ~15% fines; slight naphthalene-like odor, moist, dark brown.			
75							NLO		Refusal at 75.0 feet. Bottom of borehole at 75.0 feet.			

ENVIRONMENTAL BORING LOG FULTON MW BORING LOGS GPU GEI CONSULTANTS.GDT 11/6/08

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 IN. = INCHES
 FT. = FEET

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CITY/STATE: Brooklyn, New York
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BORING LOG

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FW-MW-02A

GROUND SURFACE ELEVATION (FT): 13.42 LOCATION: Conklin Brass Parking Lot
NORTHING: 673008.99 EASTING: 634307.6464 TOTAL DEPTH (FT): 19.00
DRILLED BY: ADT / Chris Capobianco DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
LOGGED BY: Serkan Talip DATE START / END: 8/1/2008 - 8/27/2008
DRILLING DETAILS: Hollow Stem Auger
WATER LEVEL DEPTHS (FT): ± 10.00

DEPTH FT.	SAMPLE INFORMATION					STRATA	ODOR	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)				
0					0			0 - 5 HAND CLEARED, SEE FW-MW-02 BORING LOG.	
5	S-1	2.0	14	24-15-9-14	22			5 - 6 WIDELY GRADED SAND; ~85% sand, fine to coarse, ~10% gravel, coarse, ~5% fines, non plastic; some coal, dry, black, slight diesel-like odor. 6 - 7 WIDELY GRADED SAND; ~95% sand, fine to coarse, ~5% fines, non plastic; some brick fragments, dry, brown, slight diesel-like odor.	
10	S-2	2.0	15	22-9-6-4	70.8			10 - 12 WIDELY GRADED SAND WITH GRAVEL; ~75% sand, fine to coarse, ~20% gravel, coarse, subangular, ~5% fines, non plastic; wet, grayish brown and brown, slight diesel-like odor.	
15									
NOTES:									
PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL REC = RECOVERY LENGTH OF SAMPLE PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)					ppm = PARTS PER MILLION IN. = INCHES FT. = FEET	NLO = NAPHTHALENE LIKE ODOR PLO = PETROLEUM LIKE ODOR TLO = TAR LIKE ODOR CLO = CHEMICAL LIKE ODOR ALO = ASPHALT LIKE ODOR	CrLO= CREOSOTE LIKE ODOR OLO = ORGANIC LIKE ODOR SLO = SULFUR LIKE ODOR MLO = MUSTY LIKE ODOR		

 GEI Consultants	GEI Consultants, Inc. 455 Winding Brook Road Glastonbury, CT 06033 (860) 368-5300					CLIENT: National Grid PROJECT NAME: Fulton Municipal Works MGP CITY/STATE: Brooklyn, New York GEI PROJECT NUMBER: 081190			BORING LOG			
							PAGE 2 of 2	FW-MW-02A				
	SAMPLE INFORMATION						SOIL / BEDROCK DESCRIPTION					
	DEPTH FT.	TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)	STRATA	ODOR				

15	S-3	2.0	12	14-3-3-3	138	TLO	15 - 17 WIDELY GRADED SAND WITH GRAVEL; ~80% sand, fine to coarse, ~15% gravel, coarse, subangular, ~5% fines, non plastic; slight tar-like odor, wet, grayish brown, slight petroleum-like odor.			

Bottom of borehole at 19.0 feet.

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BORING LOG

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FW-MW-03R

GROUND SURFACE ELEVATION (FT): 12.27

LOCATION: Nevins Street Sidewalk

NORTHING: 673071.8571 EASTING: 634460.0031

TOTAL DEPTH (FT): 19.00

DRILLED BY: ADT / Chris Capobianco

DATUM VERT. / HORIZ.: NAVD 88 / NAD83 NY East Zone

LOGGED BY: April Krause

DATE START / END: 8/4/2008 - 8/25/2008

DRILLING DETAILS: Hollow Stem Auger

WATER LEVEL DEPTHS (FT): 10.00

DEPTH FT.	SAMPLE INFORMATION					STRATA	VISUAL IMPACTS	ODOR	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)					
0					4.9	██████			0 - 0.5 CONCRETE. 0.5 - 5 WIDELY GRADED SAND (SW); ~70% sand, ~15% gravel, ~5% fines; max. size 6 in., dry to moist, brown, HAND CLEARED.	███████████████████
5	S-1	2.0	9	13-19-26-16		██████			5 - 7 WIDELY GRADED SAND (SW); ~95% sand; dry to moist, brown.	███████████████████
10	S-2	2.0	15	6-11-11-10		██████	PL0		10 - 10.5 WIDELY GRADED SAND (SW); ~90% sand, fine to medium; wet. 10.5 - 12 WIDELY GRADED SAND (SW); ~70% sand, fine to coarse; slight petroleum-like odor, wet, brown, gray staining.	███████████████████
15										

ENVIRONMENTAL BORING LOG FULTON RI BORING LOGS GPU GEI CONSULTANTS GDT 11/6/08

NOTES:

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BORING LOG

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FW-MW-03R

DEPTH FT.	SAMPLE INFORMATION					STRATA	VISUAL IMPACTS	ODOR	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	Blows (/6 in.)	PID (ppm)					
15	S-3	2.0	14	28-8-8-9			PLO		15 - 15.9 WIDELY GRADED SAND (SW); ~70% sand, fine to coarse; slight petroleum-like odor, wet, brown, gray staining. 15.9 - 17 WIDELY GRADED SAND WITH SILT (SW-SM); ~90% sand, fine to coarse, ~10% fines; strong sulfur-like odor, wet, gray and black staining, slight sheen.	

Bottom of borehole at 19.0 feet.

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GEI PROJECT NUMBER: 081190

BORING LOG

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FW-SB-01

GROUND SURFACE ELEVATION (FT): 13.05 LOCATION: Conklin Brass Building
NORTHING: 673207.5229 EASTING: 634357.8995 TOTAL DEPTH (FT): 50.00
DRILLED BY: ADT / Jiri Kamenicek DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
LOGGED BY: Serkan Talip DATE START / END: 8/5/2008 - 8/5/2008
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): 8.00

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
0				2.7				FW-SB-01 (1-3)	0 - 0.5 CONCRETE. 0.5 - 5 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine and coarse, angular; max. size 2 in., dry, brown, some brick fragments, HAND CLEARED.
5	S-1	5.0	20						5 - 8 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, coarse, angular; max. size 1.5 in., dry, brown.
8				182					8 - 10 NARROWLY GRADED SAND (SP); ~90% sand, medium, ~5% gravel, fine, ~5% fines; max. size 0.75 in., moderate petroleum-like odor, moist, black, black petroleum staining.
10	S-2	5.0	26						10 - 13.5 WIDELY GRADED SAND (SW); ~85% sand, fine to medium, ~10% fines, non plastic, ~5% gravel, fine, subrounded; max. size 0.5 in., slight petroleum-like odor, moist, grayish brown, black petroleum staining.
12									
13.5									
15				108					13.5 - 15 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% fines, non plastic; slight petroleum-like odor, moist to wet, grayish brown, black petroleum staining.

ENVIRONMENTAL BORING LOG FULTON RI BORING LOGS GPU GEI CONSULTANTS GDT 11/6/08

NOTES:

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ppm = PARTS PER MILLION
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FT. = FEET

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 <p>GEI Consultants, Inc. 455 Winding Brook Road Glastonbury, CT 06033 (860) 368-5300</p>							CLIENT: National Grid		BORING LOG		
							PROJECT NAME: Fulton Municipal Works MGP	CITY/STATE: Brooklyn, New York	PAGE 2 of 4	FW-SB-01	
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION		
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)							
15	S-3	5.0	34	179					15 - 20 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% fines, non plastic; slight petroleum-like odor, moist to wet, grayish brown, black petroleum staining.		
20	S-4	5.0	26	168			PLO		20 - 22.5 WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand, fine to coarse, ~15% gravel, coarse, subangular, ~10% fines, non plastic; max. size 0.5 in., slight petroleum-like odor, moist, grayish brown, black petroleum staining.		
25	S-5	5.0	21	377			PLO		22.5 - 25 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% fines, non plastic; slight petroleum-like odor, moist to wet, grayish brown.		
30	S-6	5.0	41				PLO		25 - 26.5 SILTY SAND (SM); ~80% sand, fine, ~15% fines, non plastic, ~5% gravel, fine, subrounded; max. size 0.5 in., slight petroleum-like odor, moist to wet, grayish brown, black petroleum staining.		
							PLO		26.5 - 28 NARROWLY GRADED SAND (SP); ~90% sand, medium, ~5% gravel, fine, subrounded, ~5% fines, non plastic; moderate petroleum-like odor, moist to wet, grayish black, black petroleum staining.		
							PLO		28 - 29.5 SILTY SAND (SM); ~80% sand, fine, ~15% fines, non plastic, ~5% gravel, fine, subrounded; slight petroleum-like odor, moist to wet, grayish brown.		
							PLO		29.5 - 30 NARROWLY GRADED SAND (SP); ~90% sand, medium, ~5% gravel, fine, subrounded, ~5% fines, non plastic; slight petroleum-like odor, moist to wet, grayish black.		
							NLO		30 - 31 NARROWLY GRADED SAND (SP); ~90% sand, medium, ~5% gravel, fine, subrounded, ~5% fines, non plastic; slight petroleum-like odor, moist to wet, grayish black.		
							NLO		31 - 31.5 SILTY SAND (SM); ~80% sand, fine, ~15% fines, non plastic, ~5% gravel, fine and coarse, subangular; slight naphthalene-like odor, moist to wet, grayish brown.		
							NLO		31.5 - 32 SILTY SAND (SM); ~80% sand, fine, ~15% fines, non		
NOTES:											
PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL				ppm = PARTS PER MILLION				NLO = NAPHTHALENE LIKE ODOR			
REC = RECOVERY LENGTH OF SAMPLE				IN. = INCHES				CrLO = CREOSOTE LIKE ODOR			
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)				FT. = FEET				OLO = ORGANIC LIKE ODOR			
				TLO = TAR LIKE ODOR				SLO = SULFUR LIKE ODOR			
				CLO = CHEMICAL LIKE ODOR				MLO = MUSTY LIKE ODOR			
				ALO = ASPHALT LIKE ODOR							

GEI Consultants, Inc. 455 Winding Brook Road Glastonbury, CT 06033 (860) 368-5300							CLIENT: National Grid PROJECT NAME: Fulton Municipal Works MGP CITY/STATE: Brooklyn, New York GEI PROJECT NUMBER: 081190	BORING LOG	
							PAGE 3 of 4	FW-SB-01	
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
35	S-7	5.0	36	562			NLO	FW-SB-01 (33-35)	plastic, ~5% gravel, fine and coarse, subangular; slight naphthalene-like odor, moist to wet, grayish brown, black petroleum staining. 32 - 33 SILTY SAND (SM); ~80% sand, fine, ~15% fines, non plastic, ~5% gravel, fine and coarse, subangular; slight naphthalene-like odor, moist to wet, grayish brown. 33 - 35 SILTY SAND (SM); ~80% sand, fine, ~15% fines, non plastic, ~5% gravel, fine and coarse, subangular; slight naphthalene-like odor, moist to wet, grayish brown, slight diesel-like odor. 35 - 39 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, coarse, subrounded, ~5% fines, non plastic; moist, brown and grayish brown, diesel-like odor.
40	S-8	5.0	0	249			NLO		39 - 40 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, coarse, subrounded, ~5% fines, non plastic; moderate naphthalene-like odor, moist, brown and grayish brown, diesel-like odor. 40 - 45 SILTY SAND (SM); ~80% sand, fine to coarse, ~15% fines, non plastic, ~5% gravel, fine and coarse; strong naphthalene-like odor, moist, grayish brown, slight diesel-like odor.
45	S-9	5.0	20	229			NLO		45 - 47 SILTY SAND (SM); ~80% sand, fine, ~15% fines, non plastic, ~5% gravel, fine and coarse, subangular; slight naphthalene-like odor, moist to wet, grayish brown.
50				21			NLO		47 - 50 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, coarse, subangular; slight naphthalene-like odor, moist to wet, grayish brown.
NOTES:									
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BORING LOG

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SAMPLE INFO

DEPTH FT.	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)	STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
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Bottom of borehole at 50.0 feet.

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 GEI Consultants				CLIENT: <u>National Grid</u> PROJECT NAME: <u>Fulton Municipal Works MGP</u> CITY/STATE: <u>Brooklyn, New York</u> GEI PROJECT NUMBER: <u>081190</u>				BORING LOG	
								PAGE	FW-SB-02
GROUND SURFACE ELEVATION (FT): <u>12.99</u>				LOCATION: <u>Conklin Brass Building</u>					
NORTHING: <u>673163.2157</u> EASTING: <u>634345.0769</u>				TOTAL DEPTH (FT): <u>50.00</u>					
DRILLED BY: <u>ADT / Jiri Kamenicek</u>				DATUM VERT. / HORZ.: <u>NAVD 88 / NAD83 NY East Zone</u>					
LOGGED BY: <u>Serkan Talip</u>				DATE START / END: <u>8/12/2008</u>					
DRILLING DETAILS: <u>Geoprobe</u>									
WATER LEVEL DEPTHS (FT): <u>▽ 10.00</u>									
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
0				585				FW-SB-02 (2-4)	0 - 0.75 CONCRETE. 0.75 - 5 WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand, fine to coarse, ~25% gravel, coarse, subangular; subangular, max. size 6 in., dry, blackish brown, some brick fragments, HAND CLEARED.
5	S-1	5.0	45	315					5 - 8 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~10% gravel, coarse, subangular; subangular, max. size 1.5 in., dry, blackish brown, brick fragments at 5-5.25 ft. bgs, rock fragments at 5.5 and 8 ft. bgs, slight diesel-like odor.
8									8 - 10 NARROWLY GRADED SAND (SP); ~90% sand, fine, ~10% gravel, coarse, subrounded; max. size 0.5 in., dry, gray and dark brown, slight diesel-like odor.
10	S-2	5.0	34	247					10 - 15 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% gravel, coarse, subangular; max. size 0.5 in., moist, gray, slight diesel-like odor, diesel staining.
15									
NOTES:									
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BORING LOG

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DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
15	S-3	5.0	33	1086					15 - 20 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% gravel, coarse, subangular; max. size 0.5 in., moist, gray, moderate diesel-like odor, diesel staining.
20	S-4	5.0	38	333					20 - 23 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% gravel, coarse, subangular; max. size 0.5 in., moist, gray, moderate diesel-like odor, diesel staining.
25	S-5	5.0	32	1214					23 - 25 NARROWLY GRADED SAND (SP); ~100% sand, fine; moist, gray, moderate diesel-like odor.
30	S-6	5.0	22	1254			PLO	FW-SB-02 (30-33)	25 - 29 NARROWLY GRADED SAND (SP); ~100% sand, fine; moist, gray, moderate diesel-like odor.
						NLO			29 - 30 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; moderate petroleum-like odor, wet, gray, moderate diesel-like odor.
									30 - 35 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; moderate naphthalene-like odor, wet, gray, moderately tar coated.



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BORING LOG

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SAMPLE INFO

DEPTH FT.	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)	STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
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Bottom of borehole at 50.0 feet.

NOTES:

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OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

 GEI Consultants						CLIENT: National Grid PROJECT NAME: Fulton Municipal Works MGP CITY/STATE: Brooklyn, New York GEI PROJECT NUMBER: 081190			BORING LOG	
									PAGE 1 of 2	FW-SB-03
GROUND SURFACE ELEVATION (FT): 13.03 NORTHING: 673120.4838 EASTING: 634330.354 DRILLED BY: ADT / Jiri Kamenicek LOGGED BY: Serkan Talip DRILLING DETAILS: Geoprobe WATER LEVEL DEPTHS (FT): ▽ 10.00						LOCATION: Conklin Brass Building TOTAL DEPTH (FT): 25.00 DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone DATE START / END: 8/13/2008				
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
0								FW-SB-03 (2-5)	0 - 0.75 CONCRETE. 0.75 - 5 WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% sand, ~20% gravel, coarse, subangular, ~10% fines, non plastic; max. size 2.5 in., dry, dark brown, <5% brick fragments, HAND CLEARED.	
5	S-1	5.0	39	2289				FW-SB-03 (8-10)	5 - 10 SILTY SAND WITH GRAVEL (SM); ~70% sand, fine to coarse, ~15% gravel, coarse, subangular, flat and elongated, ~15% fines, non plastic; max. size 0.25 in., dry to moist, dark brown, strong diesel-like odor, brick fragments at 5.5-6 ft bgs.	
10	S-2	5.0	60	585					10 - 15 WIDELY GRADED SAND WITH SILT (SW-SM); ~85% sand, fine to coarse, ~10% fines, non plastic, ~5% gravel, coarse, subangular; max. size 0.25 in., wet, dark brown and brownish gray, strong diesel-like odor, diesel staining.	
15										
NOTES: PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL REC = RECOVERY LENGTH OF SAMPLE PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) ppm = PARTS PER MILLION IN. = INCHES FT. = FEET NLO = NAPHTHALENE LIKE ODOR PLO = PETROLEUM LIKE ODOR TLO = TAR LIKE ODOR CLO = CHEMICAL LIKE ODOR ALO = ASPHALT LIKE ODOR CrLO = CREOSOTE LIKE ODOR OLO = ORGANIC LIKE ODOR SLO = SULFUR LIKE ODOR MLO = MUSTY LIKE ODOR										
ENVIRONMENTAL BORING LOG FULTON RI BORING LOGS GPU GEI CONSULTANTS GDT 11/6/08										

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							PROJECT NAME: Fulton Municipal Works MGP		PAGE	FW-SB-03
							CITY/STATE: Brooklyn, New York		2 of 2	
							GEI PROJECT NUMBER: 081190			
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
15	S-3	5.0	60	419					15 - 20 WIDELY GRADED SAND WITH SILT (SW-SM); ~85% sand, fine to coarse, ~10% fines, non plastic, ~5% gravel, coarse, subangular; max. size 0.25 in., wet, dark brown and brownish gray, strong diesel-like odor, heavily coated with diesel.	
20	S-4	5.0	60	516			TLO	FW-SB-03 (23.5-25)	20 - 21 WIDELY GRADED SAND (SW); ~95% sand, fine, ~5% fines; strong tar-like odor, wet, light dark brown, moderately tar coated.	
							TLO		21 - 21.5 SILTY SAND WITH GRAVEL (SM); ~65% sand, medium to coarse, ~20% gravel, coarse, subrounded, ~15% fines, non plastic; max. size 1 in., moderate tar-like odor, wet, very dark brown, moderate diesel-like odor, moderately diesel stained.	
							PLO		21.5 - 25 WIDELY GRADED SAND (SW); ~90% sand, fine to medium, ~5% gravel, coarse, subrounded, ~5% fines, non plastic; max. size 0.25 in., strong petroleum-like odor, wet, light brown, strong diesel-like odor, moderately diesel stained.	
25									Bottom of borehole at 25.0 feet.	

ENVIRONMENTAL BORING LOG FULTON RI BORING LOGS GPU GEI CONSULTANTS.GDT 11/6/08

NOTES:

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 IN. = INCHES
 FT. = FEET

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BORING LOG

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FW-SB-04

GROUND SURFACE ELEVATION (FT): 13.03 LOCATION: Conklin Brass Building
NORTHING: 673187.2305 EASTING: 634373.1795 TOTAL DEPTH (FT): 50.00
DRILLED BY: ADT / Jiri Kamenicek DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
LOGGED BY: Serkan Talip DATE START / END: 8/6/2008
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): 10.00

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
0				0.0				FW-SB-04 (0.5-3)	0 - 0.5 CONCRETE. 0.5 - 3 WIDELY GRADED SAND (SW); ~75% sand, fine to coarse, ~25% gravel, coarse, subangular; max. size 2 in., dry, brown.
5	S-1	2.0	24						3 - 5 WIDELY GRADED SAND (SW); ~85% sand, fine to coarse, ~10% gravel, fine to coarse, subangular, ~5% fines, non plastic; ~20% brick, ~15% rock fragments, dry, brown, rock fragments at 3-3.75 ft. bgs and brick fragments at 4.5-5 ft. bgs.
10	S-2	5.0	36						5 - 10 SILTY SAND (SM); ~85% sand, medium to coarse, ~15% fines, non plastic; ~45% rock fragments, slight petroleum-like odor, dry, very dark brown, rock fragments at 5.5-6 ft., 8.5-9 ft., 9.5-10 ft. bgs.
15	S-3	5.0	56	192					10 - 15 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, coarse, subangular, ~5% fines, non plastic; max. size 0.5 in., moderate petroleum-like odor, moist to wet, dark brown, petroleum sheen.

ENVIRONMENTAL BORING LOG FULTON RI BORING LOGS GPU GEI CONSULTANTS GDT 11/6/08

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IN. = INCHES
FT. = FEET

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GEI PROJECT NUMBER: 081190

BORING LOG

FW-SB-04

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							PROJECT NAME: Fulton Municipal Works MGP			PAGE	FW-SB-04		
							CITY/STATE: Brooklyn, New York			3 of 4			
							GEI PROJECT NUMBER: 081190						
DEPTH FT.		SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION			
		TYPE and NO.	PEN FT.	REC IN.	PID (ppm)								
		S-8	5.0	36	711			TLO					
35										35 - 37.5 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; moderate tar-like odor, wet, dark brown, lightly tar coated.			
		S-9	5.0	24	1096			TLO					
40								TLO		37.5 - 40 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; strong tar-like odor, wet, brown, moderately tar coated.			
		S-10	5.0	23	2768			TLO	FW-SB-04 (42-43)	40 - 42 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; moderate tar-like odor, wet, brown, lightly tar coated.			
45								TLO		42 - 42.5 SILTY SAND (SM); ~80% sand, fine to coarse, ~20% fines, non plastic; strong tar-like odor, moist to wet, brown, lightly tar coated.			
								TLO		42.5 - 42.75 SILTY SAND (SM); ~80% sand, fine to coarse, ~20% fines, non plastic; strong tar-like odor, moist to wet, brown, tar saturated.			
								TLO		42.75 - 45 SILTY SAND (SM); ~80% sand, fine to coarse, ~20% fines, non plastic; strong tar-like odor, moist to wet, brown, lightly tar coated.			
50					104			TLO	FW-SB-04 (48-50)	45 - 45.5 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% fines, non plastic; strong tar-like odor, moist, brown.			
										45.5 - 45.75 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% fines, non plastic; strong tar-like odor, moist, brown, tar saturated.			
										45.75 - 50 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% fines, non plastic; strong tar-like odor, moist, brown.			
NOTES:													
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REC = RECOVERY LENGTH OF SAMPLE				IN. = INCHES				PLO = PETROLEUM LIKE ODOR					
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)				FT. = FEET				TLO = TAR LIKE ODOR					
								CLO = CHEMICAL LIKE ODOR					
								ALO = ASPHALT LIKE ODOR					
								CrLO = CREOSOTE LIKE ODOR					
								OLO = ORGANIC LIKE ODOR					
								SLO = SULFUR LIKE ODOR					
								MLO = MUSTY LIKE ODOR					



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BORING LOG

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FW-SB-04

SAMPLE INFO

DEPTH FT.	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)	STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
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Bottom of borehole at 50.0 feet.

NOTES:

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BORING LOG

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FW-SB-05

GROUND SURFACE ELEVATION (FT): 13.01 LOCATION: Conklin Brass Building
NORTHING: 673139.0807 EASTING: 634300.6013 TOTAL DEPTH (FT): 6.00
DRILLED BY: ADT / Jamey Meyers DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
LOGGED BY: Matt Sweet DATE START / END: 8/19/2008
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT):

DEPTH FT.	SAMPLE INFO			STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	TYPE and NO.	PEN FT.	REC IN.			
0	S-1	5.0	24			0 - 3 CONCRETE.
5	S-2	1.0	0			5 - 6 NO RECOVERY.

Refusal at 6.0 feet.
Bottom of borehole at 6.0 feet.

NOTES:

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PID = PHOTOIONIZATION DETECTOR READING (JAR
HEADSPACE)

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IN. = INCHES
FT. = FEET

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TLO = TAR LIKE ODOR
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CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 081190

BORING LOG

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FW-SB-05A

GROUND SURFACE ELEVATION (FT): 13.01 LOCATION: Conklin Brass Building
NORTHING: 673144.3613 EASTING: 634295.8794 TOTAL DEPTH (FT): 6.00
DRILLED BY: ADT / Jamey Meyers DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
LOGGED BY: Matt Sweet DATE START / END: 8/21/2008 - 8/21/2008
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT):

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION
	TYPE and NO.	PEN FT.	REC IN.		
0	S-1	5.0	10		0 - 3 CONCRETE. 3 - 5 BRICK AND CONCRETE FRAGMENTS.
5	S-2	1.0	0		5 - 6 NO RECOVERY.

Refusal at 6.0 feet.
Bottom of borehole at 6.0 feet.

NOTES:

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REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (JAR
HEADSPACE)

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

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CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 081190

BORING LOG

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FW-SB-05B

GROUND SURFACE ELEVATION (FT): 13.01 LOCATION: Conklin Brass Building
 NORTHING: 673149.8248 EASTING: 634296.9964 TOTAL DEPTH (FT): 50.00
 DRILLED BY: ADT / Jamey Meyers DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
 LOGGED BY: Matt Sweet DATE START / END: 8/21/2008 - 8/21/2008
 DRILLING DETAILS: Geoprobe
 WATER LEVEL DEPTHS (FT): ▽ 10.00

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
0									0 - 5 See FW-SB-05 and FW-SB-05A for soil description.
5	S-1	5.0	8	8.1					5 - 10 SILTY SAND WITH GRAVEL (SM); ~40% sand, medium to coarse, angular, ~40% fines, ~20% gravel, fine; max. size 0.25 in., slight naphthalene-like odor, moist, brown, FILL, concrete.
10	S-2	5.0	30				NLO		10 - 15 SILTY SAND (SM); ~60% sand, fine to medium, ~35% fines, ~5% gravel, fine, subangular; layered, max. size 0.25 in., strong tar-like odor, moist to wet, dark brown, FILL, tar coated grains.
15				533			TLO	FW-SB-05B (13-15)	

ENVIRONMENTAL BORING LOG FULTON RI BORING LOGS GPU GEI CONSULTANTS GDT 11/6/08

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 IN. = INCHES
 FT. = FEET

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 SLO = SULFUR LIKE ODOR
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								PROJECT NAME: Fulton Municipal Works MGP	PAGE 2 of 4	FW-SB-05B			
								CITY/STATE: Brooklyn, New York					
								GEI PROJECT NUMBER: 081190					
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID		SOIL / BEDROCK DESCRIPTION			
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)									
15	S-3	5.0	29	529					15 - 20 NARROWLY GRADED SAND WITH GRAVEL (SP); ~85% sand, fine to medium, ~15% gravel, fine to coarse, subrounded; max. size 1.25 in., strong tar-like odor, moist to wet, dark brown, tar coated grains.				
20	S-4	5.0	29	453			TLO		20 - 25 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% gravel, fine, subrounded; max. size 0.25 in., moderate tar-like odor, moist to wet, dark brown, tar coated grains.				
25	S-5	5.0	0				TLO		25 - 30 NO RECOVERY.				
30	S-6	5.0	12	312			TLO		30 - 35 WIDELY GRADED SAND (SW); ~85% sand, fine to coarse, subangular, ~10% gravel, fine to coarse, ~5% fines; max. size 1 in., moderate tar-like odor, moist to wet, dark brown, tar coated grains at 30-30.5 ft..				
NOTES:													
PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL REC = RECOVERY LENGTH OF SAMPLE PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)				ppm = PARTS PER MILLION IN. = INCHES FT. = FEET				NLO = NAPHTHALENE LIKE ODOR PLO = PETROLEUM LIKE ODOR TLO = TAR LIKE ODOR CLO = CHEMICAL LIKE ODOR ALO = ASPHALT LIKE ODOR					
								CrLO= CREOSOTE LIKE ODOR OLO = ORGANIC LIKE ODOR SLO = SULFUR LIKE ODOR MLO = MUSTY LIKE ODOR					

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									PAGE	FW-SB-05B			
			SAMPLE INFO							SOIL / BEDROCK DESCRIPTION			
DEPTH FT.	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)	STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID					
35	S-7	5.0	8	54.5			TLO	FW-SB-05B (45-50)	35 - 40 NARROWLY GRADED SAND (SP); ~90% sand, medium, subangular, ~10% gravel, fine to coarse, subrounded, ~0% fines; max. size 2 in., moderate tar-like odor, moist, brown.				
40	S-8	5.0	16	78.2			TLO		40 - 45 WIDELY GRADED SAND (SW); ~85% sand, fine to coarse, subrounded, ~10% gravel, fine and coarse, subrounded, ~5% fines; max. size 1 in., moderate naphthalene-like odor, moist, pale brown.				
45	S-9	5.0	13	44.3			NLO		45 - 50 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, subrounded, ~15% gravel, fine and coarse, subrounded, ~5% fines; max. size 1 in., moderate naphthalene-like odor, moist, pale brown.				
50							NLO						

ENVIRONMENTAL BORING LOG FULTON RI BORING LOGS GPU GEI CONSULTANTS GDT 11/6/08

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CLIENT: National Grid
PROJECT NAME: Fulton Municipal Works MGP
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 081190

BORING LOG

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FW-SB-05B

SAMPLE INFO

DEPTH FT.	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)	STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
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Bottom of borehole at 50.0 feet.

NOTES:

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CLIENT: National Grid
PROJECT NAME: Fulton Municipal Works MGP
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 081190

BORING LOG

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FW-SB-06

GROUND SURFACE ELEVATION (FT): 11.58 LOCATION: Degraw Street Sidewalk
 NORTHING: 673240.5418 EASTING: 634345.2879 TOTAL DEPTH (FT): 98.00
 DRILLED BY: ADT / Jiri Kamenicek DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
 LOGGED BY: Serkan Talip DATE START / END: 7/31/2008 - 8/14/2008
 DRILLING DETAILS: Geoprobe
 WATER LEVEL DEPTHS (FT): 6.00

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
0	S-1	5.0	60						0 - 0.75 CONCRETE. 0.75 - 5 WIDELY GRADED SAND (SW); ~75% sand, ~15% gravel; max. size 7 in., brown, some brick pieces, HAND CLEARED.
5	S-2	5.0	18	100	0				5 - 10 NARROWLY GRADED SAND WITH SILT (SP-SM); ~90% sand, fine to medium, subrounded, ~10% fines; moderate petroleum-like odor, wet, brownish gray, petroleum staining.
10	S-3	5.0	43	307					10 - 15 WIDELY GRADED SAND WITH SILT (SW-SM); ~90% sand, fine to coarse, subrounded, ~10% fines; strong petroleum-like odor, wet, dark gray, strong sulfur-like odor, gray petroleum staining.
15									

ENVIRONMENTAL BORING LOG FULTON RI BORING LOGS GPU GEI CONSULTANTS GDT 11/6/08

NOTES:

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 IN. = INCHES
 FT. = FEET

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 TLO = TAR LIKE ODOR
 CLO = CHEMICAL LIKE ODOR
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CrLO= CREOSOTE LIKE ODOR
 OLO = ORGANIC LIKE ODOR
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 MLO = MUSTY LIKE ODOR

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								PROJECT NAME: Fulton Municipal Works MGP	PAGE 2 of 6	FW-SB-06			
								CITY/STATE: Brooklyn, New York					
								GEI PROJECT NUMBER: 081190					
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID		SOIL / BEDROCK DESCRIPTION			
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)									
15	S-4	5.0	44	502					15 - 20 WIDELY GRADED SAND WITH SILT (SW-SM); ~90% sand, fine to coarse, ~10% fines; strong petroleum-like odor, wet, dark gray, gray petroleum staining.				
20	S-5	5.0	43	174					20 - 25 SILTY SAND (SM); ~85% sand, fine, ~15% fines; strong petroleum-like odor, moist to wet, brownish gray, light coating of tar, tar lens at 24ft.				
25	S-6	5.0	28	54.6					25 - 28 SILTY SAND (SM); ~85% sand, fine to coarse, subrounded, ~15% fines; strong petroleum-like odor, wet, brownish gray.				
30	S-7	5.0	24	9.9					28 - 30 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse, subrounded, flat and elongated; strong petroleum-like odor, wet, brown.				
NOTES: PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR CrLO= CREOSOTE LIKE ODOR PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR OLO = ORGANIC LIKE ODOR HEADSPACE) CLO = CHEMICAL LIKE ODOR SLO = SULFUR LIKE ODOR ALO = ASPHALT LIKE ODOR MLO = MUSTY LIKE ODOR													

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							PROJECT NAME: Fulton Municipal Works MGP		PAGE	FW-SB-06					
							CITY/STATE: Brooklyn, New York		3 of 6						
							GEI PROJECT NUMBER: 081190								
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION						
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)											
35	S-8	5.0	33	47.2	Dotted Pattern	PLO	TLO		35 - 40 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; slight tar-like odor, moist, brownish gray.						
40	S-9	5.0	36	37.6					40 - 45 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium, ~5% fines; slight tar-like odor, moist, grayish brown.						
45	S-10	5.0	18	13.4	Dotted Pattern	TLO	TLO		45 - 50 WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand, fine to coarse, subangular, ~25% gravel, fine to coarse, subrounded; max. size 1 in., slight tar-like odor, moist to wet, brown.						
50															
NOTES:															
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PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)				FT. = FEET				TLO = TAR LIKE ODOR							
								CLO = CHEMICAL LIKE ODOR							
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PROJECT NAME: Fulton Municipal Works MGP
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 081190

BORING LOG

AGE
of 6

FW-SB-06

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
50	S-11	5.0	11	56	██████		TLO		50 - 55 WIDELY GRADED SAND (SW); ~85% sand, fine to coarse, subangular, ~10% fines, ~5% gravel, fine, subrounded; slight tar-like odor, moist, brownish gray.
55	S-12	5.0	19	195	██████		TLO		55 - 60 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, subrounded, ~5% gravel, fine, subangular, ~5% fines; max. size 0.25 in., slight tar-like odor, moist, grayish brown.
60	S-13	5.0	25	195	██████				60 - 65 SILTY SAND (SM); ~80% sand, fine to coarse, ~20% fines; moist to wet, brownish gray, lensed 60-61 ft. bgs.
65	S-14	5.0	16	143	██████				65 - 70 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, subrounded, ~20% gravel, fine to coarse, subangular; moist, brown.

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							PROJECT NAME: Fulton Municipal Works MGP			PAGE	FW-SB-06
							CITY/STATE: Brooklyn, New York			5 of 6	
							GEI PROJECT NUMBER: 081190				
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION		
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)							
70	S-15	5.0	0						70 - 75 NO RECOVERY.		
75	S-16	5.0	24	31.8			TLO		75 - 78 WIDELY GRADED SAND (SW); ~100% sand, fine to medium; slight tar-like odor, wet, brownish gray.		
78							TLO		78 - 80 WIDELY GRADED SAND (SW); ~95% sand, medium to coarse, ~5% gravel; max. size 0.25 in., slight tar-like odor, wet, brownish gray.		
80	S-17	5.0	13	765			NLO	FW-SB-06 (80-85)	80 - 85 NARROWLY GRADED SAND (SP); ~100% sand, fine; moderate naphthalene-like odor, wet, light brown.		
85											

ENVIRONMENTAL BORING LOG FULTON RI BORING LOGS GPU GEI CONSULTANTS GDT 11/6/08

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							PROJECT NAME: Fulton Municipal Works MGP	CITY/STATE: Brooklyn, New York	PAGE 6 of 6	FW-SB-06	
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION		
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)							
85	S-18	5.0	8	207			NLO	FW-SB-06 (95-98)	85 - 87.5 WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~80% sand, fine to coarse, ~10% gravel, coarse, subrounded, ~10% fines, non plastic; max. size 0.5 in., moderate naphthalene-like odor, wet, brownish gray.		
							NLO		87.5 - 90 LEAN CLAY WITH SAND (CL); ~75% fines, low plasticity, ~15% sand, ~10% gravel, fine, subrounded; max. size 0.25 in., moderate naphthalene-like odor, wet, brown.		
90	S-19	5.0	25	250			NLO		90 - 92 WIDELY GRADED SAND WITH GRAVEL (SW); ~85% sand, fine to coarse, ~15% gravel, coarse, subrounded; max. size 0.5 in., moderate naphthalene-like odor, dark brown.		
							NLO		92 - 95 WIDELY GRADED SAND WITH GRAVEL (SW); ~85% sand, fine to coarse, ~15% gravel, coarse, subrounded; max. size 0.5 in., moderate naphthalene-like odor, dark brown, heavily tar coated.		
95	S-20	3.0	16	250			NLO		95 - 98 WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand, fine to coarse, ~20% gravel, coarse, subangular, ~5% fines, non plastic; max. size 0.75 in., slight naphthalene-like odor, moist, brown, heavily coated with tar, sheen.		
									Refusal at 98.0 feet. Bottom of borehole at 98.0 feet.		
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CLIENT: National Grid
PROJECT NAME: Fulton Municipal Works MGP
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 081190

BORING LOG
PAGE 1 of 5 FW-SB-07/ FW-MW-17

GROUND SURFACE ELEVATION (FT): 12.08 LOCATION: Degraw Street Sidewalk
 NORTHING: 673207.464 EASTING: 634401.0628 TOTAL DEPTH (FT): 73.00
 DRILLED BY: ADT / Jamey Meyers DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
 LOGGED BY: Matt Sweet and Serkan Talip DATE START / END: 7/31/2008 - 8/26/2008
 DRILLING DETAILS: Geoprobe/Hollow Stem Auger
 WATER LEVEL DEPTHS (FT): 6.50

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
0									0 - 5 WIDELY GRADED SAND WITH SILT (SW-SM); ~75% sand, ~10% gravel, ~10% fines; max. size 8 in., dry, brown, pipe at 3 ft. bgs, HAND CLEARED.	
5	S-1	5.0	20	53.9				FW-SB-07 (4-5)	5 - 10 SILTY SAND (SM); ~80% sand, fine, ~15% fines, non plastic, ~5% gravel, fine, subangular; max. size 0.25 in., wet, brown and dark brown, moderate diesel-like odor, rock fragments at 5 ft. bgs.	
10	S-2	5.0	29	29					10 - 11 SILTY SAND (SM); ~80% sand, fine to medium, ~15% fines, non plastic, ~5% gravel, fine, subangular; max. size 0.25 in., wet, dark brown, moderate diesel-like odor. 11 - 14 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; wet, dark brown, moderate diesel-like odor.	
15									14 - 15 SILTY SAND (SM); ~85% sand, fine, ~15% fines, non plastic; wet, dark brown, moderate diesel-like odor.	

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							PROJECT NAME: Fulton Municipal Works MGP	CITY/STATE: Brooklyn, New York	PAGE 2 of 5	FW-SB-07/ FW-MW-17		
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION		WELL CONSTRUCTION DETAILS	
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)								
15	S-3	5.0	30	80.6					15 - 20 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% gravel, fine, subrounded; max. size 0.25 in., wet, brown, strong diesel-like odor.			
20	S-4	5.0	35	137					20 - 22.5 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% gravel, fine, subrounded; max. size 0.25 in., wet, brown, moderate diesel-like and tar-like odors.			
25	S-5	5.0	30	432			TLO	FW-SB-07 (30-32)	22.5 - 25 NARROWLY GRADED SAND (SP); ~100% sand, fine; moderate tar-like odor, wet, brown.			
30	S-6	5.0	28	824			TLO		25 - 28 WIDELY GRADED SAND (SW); ~85% sand, fine to coarse, ~10% gravel, coarse, subangular, ~5% fines, non plastic; max. size 1 in., moderate tar-like odor, wet, brown.			
									28 - 30 WIDELY GRADED SAND (SW); ~85% sand, fine to coarse, ~10% gravel, coarse, subangular, ~5% fines, non plastic; max. size 1 in., moderate tar-like odor, wet, brown, lightly tar coated.			
									30 - 35 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% gravel, fine to coarse, subrounded; max. size 0.75 in., slight tar-like odor, moist to wet, brownish gray, moderately tar coated grains.			
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							PAGE 3 of 5	FW-SB-07/ FW-MW-17			
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION		WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)							
35	S-7	5.0	30	65.2			TLO		35 - 36 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% gravel, fine to coarse, subrounded; max. size 0.25 in., slight tar-like odor, moist, brownish gray. 36 - 39 NARROWLY GRADED SAND (SP); ~100% sand, fine; slight tar-like odor, wet, brownish gray.		
40	S-8	5.0	28	602			TLO		39 - 40 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% gravel, fine; max. size 0.25 in., slight tar-like odor, wet, brownish gray. 40 - 42.5 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, fine, subrounded, ~5% fines, non plastic; layered, max. size 0.5 in., slight naphthalene-like odor, moist to wet, grayish brown.		
42.5							NLO		42.5 - 42.75 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, fine, subrounded, ~5% fines, non plastic; layered, max. size 0.5 in., slight naphthalene-like odor, moist to wet, grayish brown, lensed tar staining.		
44.5							NLO		42.75 - 44.5 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, fine, subrounded, ~5% fines, non plastic; layered, max. size 0.5 in., slight naphthalene-like odor, moist to wet, grayish brown.		
45	S-9	5.0		51			NLO		44.5 - 45 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, fine, subrounded, ~5% fines, non plastic; layered, max. size 0.5 in., slight naphthalene-like odor, moist to wet, grayish brown, heavily tar coated grains.		
45									45 - 50 WIDELY GRADED SAND (SW); ~95% sand, fine to medium, ~5% gravel, fine, subrounded; max. size 0.25 in., slight naphthalene-like odor, moist, brownish gray.		
50											

ENVIRONMENTAL BORING LOG FULTON RI BORING LOGS GPU GEI CONSULTANTS GDT 11/6/08

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							PROJECT NAME: Fulton Municipal Works MGP	CITY/STATE: Brooklyn, New York	PAGE 4 of 5	FW-SB-07/ FW-MW-17	
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION		WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)							
50	S-10	5.0	32	11.5					50 - 55 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, subrounded, ~5% gravel, fine, subrounded, ~5% fines; heterogeneous, max. size 0.25 in., slight tar-like odor, moist to wet, brown.		
55	S-11	5.0	10	45.1			TLO		55 - 60 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium, ~5% gravel, fine, ~0% fines; brown.		
60	S-12	5.0	15	81.3			TLO		60 - 65 WIDELY GRADED SAND; ~90% sand, fine to coarse, ~10% gravel, fine to coarse, ~0% fines; layered, slight tar-like odor, moist, brown.		
65	S-13	5.0	1	57.1			TLO		65 - 70 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~10% gravel, fine, ~0% fines; slight tar-like odor, moist, brown.		

ENVIRONMENTAL BORING LOG FULTON RI BORING LOGS GPU GEI CONSULTANTS.GDT 11/6/08

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CLIENT: National Grid
PROJECT NAME: Fulton Municipal Works MGP
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 081190

BORING LOG
PAGE 5 of 5 FW-SB-07/ FW-MW-17

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
70	S-14	3.0	18			TLO	TLO	FW-SB-07 (72-73)	70 - 73 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium, ~5% gravel, coarse, ~0% fines; slight tar-like odor, moist, brown.	

Refusal at 73.0 feet.
Bottom of borehole at 73.0 feet.

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CLIENT: National Grid
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GEI PROJECT NUMBER: 081190

BORING LOG

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FW-SB-08

GROUND SURFACE ELEVATION (FT): 11.97 LOCATION: Nevins Street Sidewalk
 NORTHING: 673103.2621 EASTING: 634475.6896 TOTAL DEPTH (FT): 100.00
 DRILLED BY: ADT / Jiri Kamenicek DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
 LOGGED BY: Serkan Talip DATE START / END: 8/4/2008 - 8/8/2008
 DRILLING DETAILS: Geoprobe
 WATER LEVEL DEPTHS (FT): 7.00

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
0								FW-SB-08 (4-5)	0 - 0.5 CONCRETE. 0.5 - 5 WIDELY GRADED SAND (SW); ~90% sand, medium to coarse, ~10% gravel, coarse; dry, brown, HAND CLEARED.	
5	S-1	5.0	14	52.9					5 - 10 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; moist, gray and brown, groundwater at 7 ft. bgs..	
10	S-2	5.0	21	58.4					10 - 15 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; slight petroleum-like odor, moist, gray, black petroleum staining.	
15										
NOTES:										
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CLIENT: National Grid
PROJECT NAME: Fulton Municipal Works MGP
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 081190

BORING LOG

FW-SB-08

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DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
15	S-3	5.0	21						15 - 17.5 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% gravel, fine, subrounded; moist to wet, blackish brown, moderate diesel-like odor, black diesel staining.
20	S-4	5.0	10	200					17.5 - 18 SILTY SAND (SM); ~80% sand, fine, ~20% fines, ~0% gravel; moist to wet, blackish brown, moderate diesel-like odor, black diesel staining. 18 - 20 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% gravel, fine, subrounded; moist to wet, blackish brown, moderate diesel-like odor, black diesel staining.
25	S-5	5.0	30	669			TLO	FW-SB-08 (24-25)	20 - 22 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% gravel, fine, subrounded; moist to wet, blackish brown, moderate diesel-like odor, black diesel staining. 22 - 25 SILTY SAND (SM); ~80% sand, fine, ~20% fines; moist to wet, blackish brown, moderate diesel-like odor, black diesel staining.
30	S-6	5.0	30	76			TLO		25 - 28.3 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; slight tar-like odor, moist, brown. 28.3 - 30 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; slight tar-like odor, moist, brown, light tar coating.
									30 - 33.3 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; slight tar-like odor, moist, brown.

GEI Consultants, Inc. 455 Winding Brook Road Glastonbury, CT 06033 (860) 368-5300							CLIENT: National Grid PROJECT NAME: Fulton Municipal Works MGP CITY/STATE: Brooklyn, New York GEI PROJECT NUMBER: 081190	BORING LOG		
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	PAGE	FW-SB-08
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					3 of 6	
35	S-7	5.0	24	666			TLO			33.3 - 34 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; slight tar-like odor, moist, brown, lightly tar coated. 34 - 35 SILTY SAND (SM); ~65% sand, fine, ~35% fines, non plastic; slight tar-like odor, moist, brown, lightly tar coated. 35 - 37 SILTY SAND (SM); ~75% sand, fine to coarse, ~15% fines, non plastic, ~10% gravel, coarse, subrounded; max. size 0.75 in., slight tar-like odor, moist, brown, 2 in. tar lens at 37.1 ft. bgs.
40	S-8	5.0	18	165			TLO			37 - 40 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; slight tar-like odor, moist, brown. 40 - 45 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; slight tar-like odor, moist, brown.
45	S-9	5.0	22	100			TLO			45 - 50 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, coarse, subrounded; max. size 1.5 in., moist.
50										
NOTES:										
PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL REC = RECOVERY LENGTH OF SAMPLE PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)				ppm = PARTS PER MILLION IN. = INCHES FT. = FEET				NLO = NAPHTHALENE LIKE ODOR PLO = PETROLEUM LIKE ODOR TLO = TAR LIKE ODOR CLO = CHEMICAL LIKE ODOR ALO = ASPHALT LIKE ODOR		
								CrLO= CREOSOTE LIKE ODOR OLO = ORGANIC LIKE ODOR SLO = SULFUR LIKE ODOR MLO = MUSTY LIKE ODOR		

 GEI Consultants							CLIENT: <u>National Grid</u>			BORING LOG	
							PROJECT NAME: <u>Fulton Municipal Works MGP</u>			PAGE 4 of 6	FW-SB-08
							CITY/STATE: <u>Brooklyn, New York</u>				
							GEI PROJECT NUMBER: <u>081190</u>				
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION		
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)							
50	S-10	5.0	16	29					50 - 55 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, coarse, subrounded; max. size 1 in., moist, brown.		
55	S-11	5.0	0	0					55 - 60 NO RECOVERY.		
60	S-12	5.0	20	60			TLO		60 - 65 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, coarse, subrounded; max. size 1 in., slight tar-like odor, wet, brown, tar lens, tar sheen.		
65	S-13	5.0	24	21			TLO		65 - 70 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, coarse, subrounded, ~5% fines, non plastic; max. size 0.5 in., slight tar-like odor, moist, brown.		
NOTES:											
PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL REC = RECOVERY LENGTH OF SAMPLE PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)					ppm = PARTS PER MILLION IN. = INCHES FT. = FEET	NLO = NAPHTHALENE LIKE ODOR PLO = PETROLEUM LIKE ODOR TLO = TAR LIKE ODOR CLO = CHEMICAL LIKE ODOR ALO = ASPHALT LIKE ODOR	CrLO= CREOSOTE LIKE ODOR OLO = ORGANIC LIKE ODOR SLO = SULFUR LIKE ODOR MLO = MUSTY LIKE ODOR				
ENVIRONMENTAL BORING LOG FULTON RI BORING LOGS GPU GEI CONSULTANTS.GDT 11/6/08											

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							PROJECT NAME: Fulton Municipal Works MGP	CITY/STATE: Brooklyn, New York	PAGE 5 of 6	FW-SB-08				
DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION					
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)										
70	S-14	5.0	23	30	TLO				70 - 75 NARROWLY GRADED SAND (SP); ~95% sand, medium, subrounded, ~5% fines; slight tar-like odor, moist, light brownish gray.					
75	S-15	5.0	18	8	TLO				75 - 80 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, subrounded, ~5% gravel, fine, subrounded, ~5% fines; max. size 0.75 in., slight naphthalene-like odor, moist, light brown.					
80	S-16	5.0	26	1.2	NLO				80 - 85 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium, ~5% fines; moist, light brown.					
85	NOTES: PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR CrLO= CREOSOTE LIKE ODOR PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR OLO = ORGANIC LIKE ODOR HEADSPACE) CLO = CHEMICAL LIKE ODOR SLO = SULFUR LIKE ODOR ALO = ASPHALT LIKE ODOR MLO = MUSTY LIKE ODOR													

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								PROJECT NAME: Fulton Municipal Works MGP	PAGE 6 of 6	FW-SB-08	
								CITY/STATE: Brooklyn, New York			
								GEI PROJECT NUMBER: 081190			
DEPTH FT.		SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	
85	S-17	5.0	24	31						85 - 90 NARROWLY GRADED SAND (SP); ~100% sand, fine; slight naphthalene-like odor, moist, light brown.	
90	S-18	5.0	26	12.1				NLO		90 - 95 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium, ~5% fines; moist, light brown.	
95				8.1					FW-SB-08 (95-100)	95 - 100 NARROWLY GRADED SAND (SP); ~85% sand, fine, ~10% gravel, coarse, subrounded, ~5% fines, non plastic; max. size 1 in., moist, brown.	
100										Bottom of borehole at 100.0 feet.	
NOTES: PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR CrLO= CREOSOTE LIKE ODOR PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR OLO = ORGANIC LIKE ODOR HEADSPACE) CLO = CHEMICAL LIKE ODOR SLO = SULFUR LIKE ODOR ALO = ASPHALT LIKE ODOR MLO = MUSTY LIKE ODOR											